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CURRENT PREVALENCE OF COMMUNICABLE DISEASES IN THE UNITED STATES 1

December 6, 1931-January 2, 1932

The prevalence of certain important communicable diseases, as indicated by weekly telegraphic reports from State health departments to the Public Health Service, is summarized in this report. The underlying statistical data are published weekly in the Public Health Reports, under the section entitled "Prevalence of disease."

Measles.—Reports indicated a continued seasonal increase in measles during the current period. The rate has been slightly higher since the beginning of the rise than it was during the corresponding period of last year, but for the present 4-week period the number of cases (14,298) was lower than that for any of the years from 1926 to 1929, inclusive. The disease continued most prevalent in the Atlantic Coast regions. The New England and Middle Atlantic groups reported 9,545 cases for the current period, as compared with 4,487 for the same period in 1930 and 3,813 in 1929; the South Atlantic States reported 1,318 for the current period as against 579 for the corresponding period in 1930 and 560 in 1929. All other regions showed decreases ranging from 9 per cent in the Mountain and Pacific group to 81 per cent in the South Central group.

Poliomyelitis.—The incidence of poliomyelitis declined more than 60 per cent during the month of December. In relation to the two preceding years the number of cases (266) was about 80 per cent of the number reported for the corresponding period last year, but it was still more than twice the number reported in 1929. In the New England and Middle Atlantic States the incidence (109 cases) was still considerably in excess of that for the corresponding period in the two preceding years, 58 cases being reported for this period in 1930 and 31 cases in 1929. All other regions either approximated last year's figure or showed very significant decreases. With one exception, the South Atlantic, all regions reported a higher incidence of

the disease in 1931 than in 1929.

Scarlet fever .- For the country as a whole, the scarlet fever incidence, although showing the usual seasonal rise, was approximately the same as that for the corresponding period last year and was about 10 per cent below that for 1929. A comparison of geographic areas

¹ From the Office of Statistical Investigations, U. S. Public Health Service. The number of States included for the various diseases are as follows: Typhoid fever, 27; poliomyelitis, 48; meningococcus meningitis, 48; smallpox, 48; measles, 45; diphtheria, 47; scarlet fever, 47; influenza, 30 States and New York City. The District of Columbia is counted as a State in these reports,

shows that the disease was slightly more prevalent in the North Atlantic, South Central, and Mountain and Pacific groups than at the same time last year, but the other groups reported decreases as follows: East North Central, 9 per cent; West North Central, 22 per cent; South Atlantic, 18 per cent.

Meningococcus meningitis.—The relatively low incidence of meningococcus meningitis which has prevailed thoughout the entire year was maintained during the 4-week period ended January 2. In fact, the number of cases reported (280) was the lowest reported for the corresponding period in four years. All regions shared in this favorable situation. For the second time since the beginning of 1931 the number of cases reported for a 4-week period from the South Atlantic States fell below the number reported for the corresponding period in both 1930 and 1929.

Typhoid fever.—The reported incidence of typhoid fever (1,173 cases) for the current period represented a drop of about 40 per cent since the preceding 4-week period—a normal rate of decline for the season. The incidence compared very favorably with the incidence (1,266 cases) during the same period in 1930, but was about 40 per cent in excess of the incidence in 1929. The only regions showing increases over last year were the South Atlantic and South Central; the increase over 1929 was participated in by all regions except the West North Central and Mountain and Pacific sections. In the former group the number of cases reported for the current period was 56, as compared with 71 cases for the same period in 1930 and 81 cases in 1929. The Mountain and Pacific group reported 80 cases for the current period, as against 95 for the same period in 1930 and 100 cases in 1929.

Diphtheria.—Although the usual seasonal decrease of diphtheria was apparent in all parts of the country, the number of cases (7,246) for the current period was still about 22 per cent in excess of the number reported for the same period last year. Diphtheria maintained a very low level during the year 1930, and the current incidence is considerably below the years preceding 1930. Since the beginning of the seasonal rise in October, 1931, all regions except the New England and Middle Atlantic have reported more cases of diphtheria in each 4-week period than occurred during the corresponding periods last year. In the New England and Middle Atlantic States the numbers of cases for the current period and for several preceding 4-week periods have averaged about 80 per cent of the numbers for the same periods last year and about 50 per cent of the cases in 1929. In the South Central States the disease has been considerably more prevalent than in either of the years 1930 or 1929.

Influenza.—The number of cases of influenza reported for the 4-week period ended January 2 was 3,554, representing a decrease of about 25 per cent from last year's figure for the same period and a

50 per cent decrease from the number of cases reported in 1929. A decrease in the number of cases was reported from all sections except the far western group of States. There, while the number of cases was not large (662), it was almost twice the number reported for the corresponding period in 1930, and represented an increase of about 60 per cent over the same period of 1929.

Smallpox.—The number of cases of smallpox (1,238) reported for the current period was the lowest recorded for the corresponding period in six years. All regions showed significant decreases except the New England and Middle Atlantic. In those regions the disease has been unusually prevalent for the past few months, but it has been confined mostly to the States of Vermont, Connecticut, and New York. Out of a total of 166 cases for the entire region, those States reported all except 2 cases, the numbers for the individual States being 52 cases, 61 cases, and 51 cases, respectively.

Mortality, all causes.—The average mortality rate from all causes in large cities, as reported by the Bureau of the Census, was 11.4, which was still the lowest rate in six years for the corresponding period.

A FURTHER STUDY OF BRUCELLA INFECTION IN IOWA

By A. V. Hardy, Acting Assistant Surgeon, United States Public Health Service, Associate Professor of Hygiene and Preventive Medicine, University of Iowa College of Medicine; C. F. Jordan, Acting Assistant Surgeon, United States Public Health Service, Assistant Professor of Preventive Medicine, University of Iowa College of Medicine; and I. H. Borts, Chief Bacteriologist of the Laboratories of the Iowa State Department of Health

The data here presented have been collected during the 12 months immediately following the period covered by our last report 1 (March 1, 1930, to March 1, 1931). Field investigations were discontinued early in 1930, hence the information obtained in this report was elicited chiefly by correspondence. With the further cooperation of the Iowa State Department of Agriculture the serological testing of animals has been continued and extended. Significant data have also been obtained through the bacteriological study of animals suspected of being the source of human infections. The evidence, considered as supplementary to our earlier report, is offered with little comment.

PREVALENCE

Positive agglutination tests have been obtained during the 12month period on blood specimens from 156 new cases. This represents a distinct decrease in comparison with the preceding year, and

¹ The observations on which this paper is based were made with the support and under the auspices of the Iowa State Department of Health and the department of preventive medicine of the Iowa State University, aided by a grant from the committee on research of the American Medical Association.

is probably accounted for partly through a loss of that interest in the disease which was stimulated by our field studies and partly through an increase in the number of agglutination tests performed by the private and city laboratories. The evidence, however, again justifies the assertion that the graver forms of the disease are of infrequent occurrence and that as a general health hazard undulant fever is of relatively minor importance.

DISTRIBUTION

Most of the cases occurred sporadically. In one instance three appeared to have a common source in one dairy herd. In another the probable source of two cases was a dairy regarded as being responsible for two previous human infections.

OCCUPATION

In 113 cases the physicians responded to our request for data by completing more or less fully, our report forms. The occupations were as follows: Farmers, 51 (46 per cent); farmers' wives, 9 (8 per cent); packing-house employees, 6 (5.5 per cent); butcher, 1 (1 per cent); stock buyer, 1 (1 per cent); laborers, professional or business men, 28 (25 per cent); housewives, 10 (9 per cent); and school children 5 (4.5 per cent).

SEX

There were 89 (79.5 per cent) males and 23 (20.5 per cent) females. Of 40 cases reported as having had no contact with livestock, 23 (57.5 per cent) were males and 17 (42.5 per cent) were females.

AGE

The distribution by age groups of the cases in which this information was recorded is shown in Table 1.

TABLE	1—Distribution	of	cases	ha	ane	aroung
LABLE	1 Distribution	O)	Cuses	uu	age	urou vs

Age (years)	Total	Males	Females	Age (years)	Total	Males	Females
0-4	0 0 4 8 9 16 18 12	0 0 4 8 7 15 16	0 0 0 0 2 1 2	45-40	9 5 5 5 0 0 2	6 2 1 3 0 0 1	3 3 4 2 0 0 1
40 44	9	9	ő	Total	102	81	21

SEASONAL DISTRIBUTION

The number of cases having their onset during the months of December, January, and February is considerably below the average for the other months. Whether this is dependent upon an actual seasonal variation in incidence or upon a seasonal variation in the accuracy of diagnosing undulant fever is still a matter for speculation.

SOURCE OF INFECTION

As in the previously reported series, these cases have been studied in three groups: (a) Those without direct contact with livestock or carcasses, (b) rural residents having had direct contact with livestock. and (c) urban residents with direct contact with livestock or carcasses. The data concerning the distribution by sex and occupation correspond essentially with the previously reported cases, as does also the information concerning diet. The serological findings on the animals directly or indirectly related to these infections are of particular importance. These are summarized in Tables 2 and 3. The classification of the herds and of individual reactions as positive, doubtful, or negative corresponds with that used in our earlier report. Related to each herd of hogs and to each herd of cattle in Group B. there was one human infection. However, in investigating the 27 cases of undulant fever in Group A (Table 2), 34 herds of cattle were tested. Four of the patients obtained dairy products from more than one herd, but all animals related to one case were considered together.

TABLE 2.—Results of serological studies of dairy cattle

	Classifica- tion of	Number of related cases of undulant fever	Number of animals tested	Serological findings			
Group .				Posi- tive	Doubt- ful	Nega- tive	
A. Herds related to patients having no direct contact with livestock.	Positive	20	556	177	47	332	
Do	Doubtful_ Negative_	1 6	13		1	13	
Total	******	27	875	177	48	350	
B. Herds related to patients having direct con- tact with livestock.	Positive	19	217	55	16	146	
Do	Doubtful Negative	6 15	36 123		10	26 123	
Total		40	376	55	26	295	
Grand total		67	951	232	74	648	

A comparison of the results of tests on the herds in Groups A and B is instructive. In Group A there were positive herds related to 20 cases; in Group B, to 19 cases. In Group A only doubtfully reacting or negtive herds were found to account for seven human infections.

Of the six herds recorded as negative, in four but one cow was examined. It is possible that this was a suspected animal rather than an only one, or was merely the source of most of the milk used by the patient. In Group B the raw dairy products were derived exclusively or almost exclusively from a herd owned by the family directly affected by undulant fever. The owners, therefore, were concerned in having all animals examined; yet in 15 instances the dairy herds were entirely negative, and in 6 only doubtful reactors were found. Where the patients have had direct contact with the usual livestock on an Iowa farm, serological evidence points to cattle as a probable source of the infection in only about one-half of the cases; but where the patients have had no direct contact with livestock, a thorough examination of the dairy herds concerned usually reveals positive reactors.

A similar comparison is particularly striking when hogs are considered. In Table 3 (Group A) it is noted that in no instance were definitely positive hogs found on the same farms as the dairy herds supplying milk or cream to patients having no direct contact with livestock. Where the patient had direct contact (Group B), more than one-half of the herds of hogs proved to be positive. Hogs, therefore, must be given serious consideration as the source of infection among Iowa farmers.

TABLE 3 .- Results of serological studies of hogs

	Classifi- cation of		Number of ani- mals tested	Serological findings			
Group				Posi-	Doubt ful	Nega- tive	
A. Hogs on the same farms as the dairy herds, related to patients having no direct contact with livestock.	Positive	0	0	0	0	0	
DoDo	Doubtful . Negative	9	9 59		4	59	
Total		11	68	0	4	64	
B. Hogs related to patients having direct contact with livestock.	Positive	16	175	38	18	_ 119	
Do	Negative_	14	111			111	
Total.		30	286	38	18	230	
Grand total		41	354	38	22	294	

In 30 instances in which there had been direct contact with both cattle and hogs, the herds concerned were tested serologically. On three farms positive cattle and hogs were found; on two farms all animals were negative. In 10 instances cattle were positive and hogs negative, and in 11 instances hogs were positive and cattle negative. In one instance there were positive cattle and doubtful hogs; in two, doubtful cattle and positive hogs; in one, doubtful cattle and negative hogs. Again, these findings indicate that cattle and hogs

are of about equal importance as the source of *Brucella* infections among Iowa farmers. The evidence, supported by the bacteriological studies here reported, seems also to justify the opinion that the transmission of infection from hogs to cattle or cattle to hogs is unusual, if it occurs at all.

As in our earlier study we found that the urban cases having direct contact with livestock or carcasses (Group C) were men employed

in the hog division of packing plants.

In Iowa, therefore, cattle appear to be responsible for more than half of the human infections with *Br. melitensis*. However, since the disease of porcine origin is of greater severity, hogs and cattle in this locality are of equal significance as a source of undulant fever morbidity.

BACTERIOLOGICAL STUDIES

During the year we have obtained from the blood cultures of 19 patients 20 additional strains of Brucella. These, classified as previously described, include 10 porcine strains, 9 bovine, and 1 melitensis. Concerning two cases, one of which yielded a bovine and one a porcine strain, significant data have not been obtained. Jordan and Borts (2) have reported in full the case from which a bovine and a melitensis strain were isolated. Two porcine organisms were isolated from the employees of packing plants. Each of these men had contact with hogs only. Two bovinestrains were obtained from individuals having no contact with livestock. The remaining 12 strains were obtained from farm residents who had contact with both cattle and hogs. In four of the five instances in which a bovine strain was concerned, animal examinations were made. In all, the cattle were found to be positive; in two, hogs were found to be negative, in one of which a doubtfully reacting hog was found, while in the other no hogs were examined. Also, in four of the seven instances in which the porcine strain was concerned animal examinations were carried out. In each instance no reacting cattle were found. In three of the cases positively reacting hogs were present, and in the fourth no hogs were examined.

Bacteriological studies of positive dairy herds have, during the past year, been much more extensive than previously. In our earlier reports we recorded the isolation of *Brucella* from dairy products in three cases. In the study of the past year 34 additional strains have been obtained. Some of these are related to the cases previously reported; hence a summary of all the bacteriological findings on livestock is included.

From the milk of animals in dairy herds suspected of being the source of 14 cases of undulant fever we have isolated 28 strains of *Brucella*. Single tests only were done on a total of 44 positively reacting cows. The 9 additional strains were obtained from 12

positively reacting animals from herds which were not the suspected source of any known cases of undulant fever. In three instances a serologically positive herd yielded negative bacteriological results. The sale of reacting cows may well account for these findings, as in 1 of the 3 herds the 1 positive animal had been sold, and bacteriological studies on the 2 doubtful reactors proved to be negative; and in the other 2 instances only 1 of 3 and 2 of 5 positively reacting cows could be tested. All strains isolated from cattle have the characteristics of the abortus type of Brucella melitensis. As yet we have not been successful in obtaining for examination the milk from cattle on a farm where both positively reacting cattle and hogs were found, nor have we attempted any bacteriological studies on hogs.

Particularly significant are the three cases in which organisms have been obtained from a human case and from the animals suspected of being the source of that infection. In each case the type of organism isolated from the human source corresponded with the organisms obtained from the suspected animal; all were of the bovine variety.

Epidemiological notes on these three cases are as follows:

Case 1.—W. D., male, aged 29, farmer. During July, August, and September of 1929 patient suffered a relatively mild attack of undulant fever. Blood drawn during the third week of illness agglutinated Br. melitensis var. abortus in a 1:320 dilution and culturally yielded Br. melitensis var. abortus. On the farm there was a herd of 27 cows. During the year preceding the patient's illness one cow had aborted and two had retained placentae. Nine of the cows were serologically positive and one was doubtful. Milk specimens from four of the positive reactors were shipped to the laboratory. By guinea-pig injection Br. melitensis var. abortus was isolated from one of these. This patient reported that he drank no milk, used very little cream, and purchased creamery butter prepared from pasteurized cream. He stated that prior to his illness he had cut his hand, but continued with his usual work and regularly milked, among other cows, the cow which had aborted.

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Case 2.—A. B., male, aged 34, farmer. During May and June, 1930, patient was moderately ill with undulant fever. Blood drawn at the end of the second week agglutinated Br. melitensis in a titer of 1:640. A blood culture was received one week later. On the fifth subculture, made on the twentieth day of incubation, growth was obtained on the culture placed in the atmosphere containing 10 per cent CO₂, but not on the one incubated in the unmodified atmosphere. The growth was identified as Br. melitensis var. abortus. On the farm there were 15 cows and a large herd of hogs. There had been sporadic abortions among both cows and sows. All of the former and 21 of the latter were tested serologically. Three cows were positive and one reacted doubtfully. All hogs were negative. Cream from the milk of the three positive cows was inoculated into guinea pigs. Br. melitensis var. abortus was isolated from one. Patient stated that he used no milk or cream, but ate freely of homemade butter. He also cared for the cattle and aided with the milking.

Case 3.—G. L., male, patient in a tuberculosis hospital. He was admitted to the sanatorium during July, 1928, with a moderately advanced pulmonary tuberculosis. He improved satisfactorily and for several weeks prior to our study had been afebrile. During March, 1930, blood agglutination tests were performed on 138 patients in the hospital. The serum of G. L. agglutinated Br. melitensis in a

titer of 1:160. A blood culture was then obtained and from this Br. melitensia var. abortus was isolated. The patient stated that he felt well and was not found to have any evening elevation of temperature. Milk was supplied by the hospital herd. Of 65 cows, 33 were serologically positive. Milk samples from 8 positives were obtained, and from 7 of these Br. melitensis var. abortus was isolated. The patient had had no contact with these cows and no recent contact with any animals. He drank a large amount of raw milk from this herd. A repetition of the agglutination tests on this patient one and three months after the first examination gave titers of 1:80 and 1:40, respectively.

REFERENCES

- (1) National Institute of Health Bulletin No. 158.
- (2) Jordan, C. F., and Borts, I. H.: Double Infection by Organisms of the Brucella Group. Pub. Health Rep., 46: 2437-2443 (Oct. 9, 1931).

FINAL REPORT ON A RAT-FLEA SURVEY OF SAN JUAN, PORTO RICO

By A. L. CARRIÓN, Department of Health of Porto Rico

We (1) (2) (3) have already presented the annual results of three consecutive years of work on a rat-flea survey of San Juan, Porto Rico. This survey was carried out by the Bureau of Plague Prevention of the Insular Health Department with the cooperation of the United States Public Health Service. The present report has been prepared as a general summary of that work taken as a whole.

Activities were initiated on July 11, 1926, and were continued till June 30, 1929. During this period cage traps were distributed at the rate of 205 per day among 39 premises. Rats were obtained from only 1.8 per cent of the localities trapped, and it is estimated that a proportion of 4.2 rodents were caught per thousand traps set.

The total number of live rats captured reached 1,005. Of these, 800 were adults and 205 either young or partially grown. The number of females exceeded that of males by 119. About 30 per cent of the females, or 168, were found pregnant bearing an average of 7.5 embryos each. The highest number of embryos observed in a single animal was 11.

Table 1 shows the distribution of the rats by zones:

Table 1.—Rats captured in different zones

Year	Zone 1 (docks)	Zone 2 (water front)	Zone 3 (com- mercial)	Zone 4 (residential)	Total
1925-27 1927-28 1928-29	140 151 93	77 58 28	20 29 60	123 158 68	360 396 240
Total	384	163	109	349	1, 008

It will be seen that zones 1 and 4 supplied considerably higher numbers than zones 2 and 3. This was probably due to the fact that trapping was more active at the former locations.

Table 2 has been prepared to demonstrate the actual concentration of the species in the different zones. In this table, rat prevalence is represented by the average number of rats captured per 1,000 traps set.

Table 2.1—Comparative concentration of the species in different zones

	Zone 1 (docks)	Zone 2 (water- front)	Zone 3 (com- mercial)	Zone 4 (resi- (dential)
Total traps set	83, 762	14, 873	33, 973	34, 625
	272	105	101	231
	3. 2	7	2, 97	6. 6

¹ The records available for this table cover almost, but not entirely, the 3-year period.

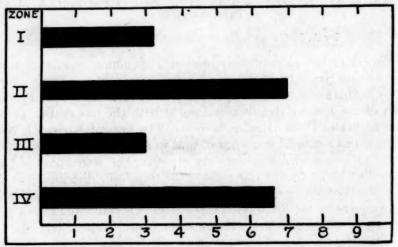


CHART 1.—Proportional concentration of rats in the four zones (average number of rats captured per 1,000 traps set)

According to this table the rat population of the city is shown to be more concentrated in the water front and residential sections, both of which show an index of approximately 7. In zones 1 and 3 the degree of infestation appears to be about half as great.

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Rattus norvegicus has been the most prevalent species in practically all parts of the city, this variety alone representing about 72 per cent of the total catch. (See Table 3.) The remainder of the rodents consisted of R. alexandrinus and R. rattus in almost equal proportions. Chart 2 shows graphically the incidence of each species in the different zones.

Fleas were found on only 57 per cent of the rats captured, the total number of parasites collected reaching 7,145. Of these, 4,029 were males and 3,116 females, a ratio of 13:10. Classification re-

vealed the presence of five different species; but one of these alone, Xenopsylla cheopis, was found to represent 98.5 per cent of the total. (See Table 4.)

TABLE 3 .- Classification of rats

Species	1926-27	1927-28	1928-29	Species, total	Species, percentage
Rattus norvegicus	287 41 32	296 45 55	140 49 60	723 135 147	72 13 15
Total	360	396	249	1, 005	100

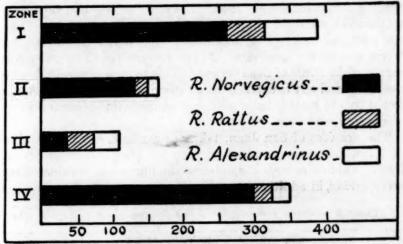


CHART 2.—Numbers and species of rats in each of the four zones

TABLE 4 .- Tabulation of fleas as to species and sex

Species	Sex	1926-27	1927-28	1928-29	Total
Xenopsylla cheopis	Males Females Males Females	1, 472 1, 067 4 31	1, 484 1, 092 1 18	1, 055 870 5 34	4, 01: 3, 02:
Ctenocephalus canis or felis	Males Females Males Females	1	1 1	2 2 1 1	
Leptopsylla musculi	Males		1		
Total		2, 575	2,600	1,970	7, 145

The highest number of fleas came from zone 1, the docks, which yielded 5,337 for the three years. Zone 4 furnished 793 specimens while the commercial and water-front districts followed with 630 and 385, respectively. (See Table 5.)

TABLE 5 .- Fleas collected in different zones

Year	Zone 1 (docks)	Zone 2 (water front)	Zone 3 (com- mercial)	Zone 4 (residential)	Total
1926-27 1927-28 1928-29	2, 014 2, 258 1, 065	212 32 141	123 121 386	226 189 378	2, 578 2, 600 1, 970
Total	5, 337	385	630	793	7, 145

As stated in a previous report, the absolute number of rat fleas collected does not always indicate the degree of infestation in a given region. Such conditions as the extent of the surveyed area, the number of rats examined for parasites and the length of time covered by the work will produce great variation in the total number of insects and may lead to false conclusions as to their actual rate of concentratation among the local rats. At the present time flea prevalence is expressed in terms of fleas per rat. This ratio is generally known as the *flea index*. It is determined by dividing the number of fleas collected by the total number of rats examined, this being independent of all other conditions.

The flea idex of San Juan, taken as a whole, has been estimated at 7.1, which is almost identical with the cheopis index, represented by 7. Table 6 records the index in the four zones considered separately, giving, in addition, the relative concentration of the rodents.

TABLE 6 .- General summary of rat and flea conditions in the four zones

	Zone 1 (docks)	Zone 2 (water front)	Zone 3 (com- mercial)	Zone 4 (residen- tial)	Total
Total rats captured Average number of rats per 1,000 traps set Total fleas collected Percentage of rats with fleas Fleas per rat	384	163	109	349	1, 005
	3. 2	7	2, 97	6. 6	4. 2
	5, 337	385	630	793	7, 145
	85. 4	33.7	73, 4	31. 2	56. 9
	13. 9	2.4	5, 8	3. 5	7. 1

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It is evident from the above table that a high rat infestation does not always imply a corresponding hyperabundance of fleas. In zone 2, for example, where the concentration of rodents appears to be highest (7 rodents per 1,000 traps set), the *flea index* is only 2.4. In zone 1, on the other hand, the flea index is very high, almost 14 per rat, while the rodent index is slightly higher than 3.

The highest number of fleas on a single animal was obtained from an adult, female, *R. alexandrinus*, trapped in a fertilizer warehouse (Nitrate Agencies) located in the water-front section of the city. This rodent had at least 303 parasites. It may be of interest to add that two other rodents yielding 124 and 111 fleas, respectively, were also captured in the water-front area.

Table 7 was prepared to determine any possible predilection of the insects for any particular species of rat.

TABLE 7 .- Comparative study of flea index in different species of rate

	Rattus norvegi- cus	Rattus rattus	Rattus alexandri- nus	Total
Total rats per species Rats with fleas Percentage of rats with fleas Total fleas per rat species Fleas per rat	723	135	147	1, 008
	345	112	115	572
	47. 7	82. 9	78. 2	56. 9
	4, 589	1, 130	1, 426	7, 145
	6. 3	8. 4	9. 7	7. 1

Although the index is evidently high for the three varieties of rodents, the above data would seem to point to the species Rattus

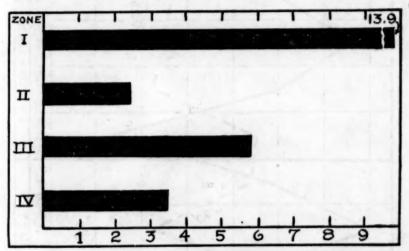


CHART 3.—Flea index in the different zones

alexandrinus and Rattus rattus as more desirable hosts. It must be admitted, however, that the number of rats examined is relatively too small and our field of observation too limited to warrant any final conclusion in this respect.

With a view to determining the relation of flea prevalence to atmospheric moisture and temperature, we have carried daily weather records which were kindly furnished at the end of each month by the office of the United States Weather Bureau at San Juan. These records, as well as the seasonal variations of the flea index for the three years, have been carefully tabulated in Charts 4 and 5. In plotting the curves for these charts it was deemed convenient to arrange the data by periods of three months.

As would be expected from our limited thermometrical changes, the temperature factor does not appear to have influenced flea prevalence in San Juan to any appreciable degree during this period. On

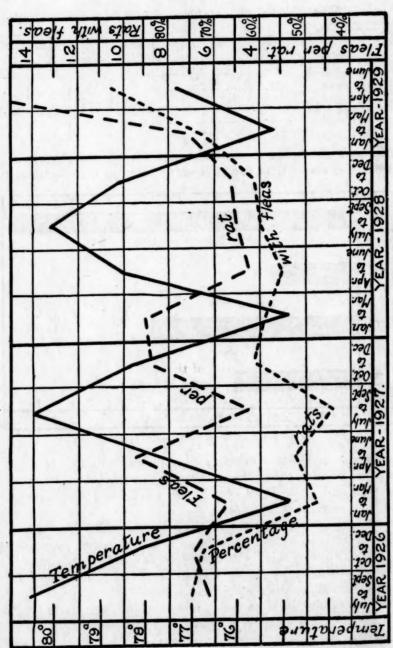


CHART 4.—Relation of temperature to flea prevalence

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the contrary, a glance at Chart 5 will show, for most of the three years, a striking parallelism between the relative humidity curve and the line representing flea prevalence. The only marked deviation from this tendency took place toward the end of the survey during the months immediately following the cyclone of San Felipe. After the occurrence of this terrific phenomenon the whole city remained for some time under very abnormal conditions, our work was hindered in many ways, and there are several other reasons for considering the data for this period as rather unreliable. The favorable influence of a moist atmosphere on the different phases of flea breeding has been variously observed by different investigators. This particular weather condition is, indeed, one of the most important factors governing the prevailing degree of infestation in any given region. Our observations in San Juan, therefore, are only confirmatory.

SUMMARY

This survey includes three consecutive years of work. During this period a total of 1,005 live rats were captured. Of these, 72 per cent were classed as Rattus norvegicus, the rest of the rodents consisting of Rattus rattus and Rattus alexandrinus in proportions of 13 and 15 per cent, respectively. Fleas were obtained from almost 57 per cent of the animals, and their total number for the three years was 7,145, giving an index of 7.1 fleas per rat for San Juan. Five different species of fleas were encountered, but one of these alone, Xenopsylla cheopis, represented 98.5 per cent of the total catch. The concentration of rats is heaviest at the water front and residential sections, while the flea index is highest at the docks (almost 14 fleas per rat) and commercial district (almost 6 fleas per rat).

COMMENT

From a considerable amount of previous work the author is led to the conclusion that the rat population of San Juan is much greater than would be expected from the data here given. The present work, however, is thought to give a fair idea of the comparative concentration of rodents in different parts of the locality. So far as the flea findings are concerned, there is every reason to believe that they represent, in a general way, the true prevailing conditions in San Juan.

If zones 1 (docks) and 2 (water front) be considered as a single zone, and this is what they actually are topographically, this zone as a whole can evidently be declared more heavily infested with rats and fleas than any other portion of the city. It is important to add that Rattus norvegicus is the prevailing rat species in the community and that Xenopsylla cheopis is practically the only flea encountered. In other words, the rat and flea conditions at the water-front area (indeed,

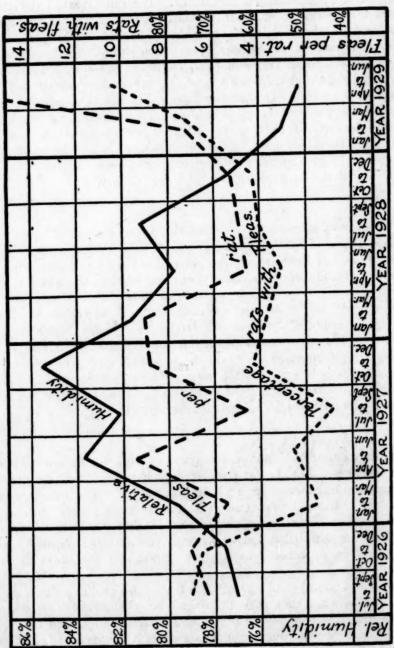


CHART 5.—Relation of atmospheric humidity to flea prevalence

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all over the city) are particularly favorable for the development and spread of bubonic plague. This offers an explanation for the introduction of the disease into this port in 1912 and again in 1921, notwithstanding the most scrupulous precautionary measures taken by the United States Public Health Service at San Juan. Moreover, the fact that San Juan is frequently visited by ships stopping at the Canary Islands and other Mediterranean and South American ports where plague is often endemically or accidentally present, renders this city particularly exposed to future infections. Under such circumstances, permanent preventive measures at San Juan should be considered a fundamental and necessary public-health activity.

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DEATH RATES IN A GROUP OF INSURED PERSONS

Rates for Principal Causes of Death for October, 1931

The accompanying table, taken from the Statistical Bulletin for November, 1931, issued by the Metropolitan Life Insurance Co., presents the mortality record of the industrial insurance department of the company for October as compared with that for the preceding month and for the corresponding month of last year. It also gives the cumulative rates for the period January-October for the years 1930 and 1931. The rates are based on a strength of approximately 19,000,000 insured persons in the United States and Canada. In recent years the general death rate in this more or less selected group of persons has averaged about 72 per cent of the rate for the registration area of the United States.

The death rate for this group for October, 1931, was 7.8 per 1,000, the lowest rate recorded for this month, reached also in October, 1927. Diphtheria, influenza, and pneumonia showed the greatest seasonal increases over the rates for the preceding month, but all were lower than for October of last year.

The Bulletin states:

It may now be stated that new low mortality rates for tuberculosis, diphtheria, diarrheal diseases, and puerperal conditions are virtually assured. The per cent reductions in their mortality rates over the previous minimal figures are as

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follows: For tuberculosis, 7.3; for diphtheria, 32.8; for diarrheal diseases, 23.0; and for puerperal conditions, 9.7. Inasmuch as the death rates for all have continued favorable up to November 21, it would require unprecedentedly high mortality in the case of any of them during the remaining weeks of the year to bring its death rate up to, or in excess of, the previous low point.

The probability that new high mortality rates would be registered in 1931 for certain diseases has also become a practical certainty with the closer approach of the end of the year. It may now be stated, beyond peradventure, that higher death rates than ever before will be registered for cancer, diabetes, heart disease,

and automobile fatalities.

Death rates (annual basis) per 100,000 for principal causes of death
[Industrial department, Metropolitan Life Insurance Co.]

71	Annual rate per 100,000 lives exposed 1						
Cause of death	October,	Septem- ber, 1931	October,	Cumulative, January to October			
	1931		1930	1931	1930		
Total, all causes	780. 2	797. 8	820. 8	886. 4	884. 6		
Typhoid fever Measles Scarlet fever. Whooping cough Diphtheria Influenza Tuberculosis (all forms) Tuberculosis of respiratory system. Caneer. Diabetes mellitus. Cerebral hemorrhage Organic diseases of heart Pneumonia (all forms) Other respiratory diseases. Diarrhea and enteritis. Bright's disease (chronic nephritis) Puerperal state Suicides Homicides Other external causes (excluding suicides and homicides) Traumatism by automobiles. All other causes.	5.5 1.9 3.3 4.0 5.2 70.9 63.0 77.7 18.4 41.3 8.4 27.0 10.0 8.3 55.4	4. 7 .4 1. 2 .2 4. 1. 1 .2 2. 4. 5 .60. 5 .62. 0 .70. 4 .71. 8 .55. 9 .72. 7 .73. 2 .73. 6 .73. 1 .74. 6 .75. 9 .75. 6 .75. 6 .7	4. 4 .3 1. 3 2. 7 5. 1 6. 8 75. 9 68. 3 83. 4 17. 1 9. 0 62. 7 10. 1 7. 0 60. 2 23. 7 159. 8	2. 2 3. 4 3. 2 3. 6 3. 9 22. 4 77. 0 82. 3 20. 6 61. 2 148. 7 76. 5 16. 4 66. 3 11. 2 9. 8 7. 0	2 2 3 2 2 6 4 6 5 8 14 9 8 3 1 1 7 2 3 3 7 8 2 2 18 6 6 0 4 1 4 5 5 7 6 7 7 1 1 2 1 3 6 8 3 12 4 9 7 6 7 6 3 3 20 5 7 19 5 7 19 5 7		

All figures in this table include insured infants under 1 year of age. The rates for 1931 are subject to slight corrections, since they are based on provisional estimates of lives exposed to risk.

COURT DECISION RELATING TO PUBLIC HEALTH

Regulation restricting inspection of tuberculosis records upheld.—(New York Supreme Court, Appellate Term; McGowan v. Metropolitan Life Insurance Co. et al., 253 N. Y. S. 551; decided Nov. 5, 1931.) In an action brought by the beneficiary of a life insurance policy, the defendant company defended on the ground that the insured had made false representations regarding his health. In his application made in 1928, the insured denied that he had had any surgical operations, serious illness, or disease of the lungs; that he had been attended by a physician during the preceding five years; or that he had received treatment within that time in any dispensary, hospital, or sanitarium. The company asserted that it had learned

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that the insured had pulmonary tuberculosis for several years before he applied for insurance and that he had been examined and had received clinical and hospital treatment at the hands of the New York City Health Department within the 5-year period preceding his application. The company accordingly applied for a subpœna directing the city health department to produce upon the trial all books and records showing the care, treatment, medical attendance, history, diagnosis, admission, discharge, and disposition, in the case of the insured, who died in 1929.

Section 1175 of the Greater New York Charter provided as follows:

The board of health may establish, as it shall deem wise and to promote the public good and public service, reasonable regulations as to the publicity of any of the papers, files, reports, records, and proceedings of the department of health; and may publish such information as may, in its opinion, be useful concerning births, deaths, marriages, sickness, and the general sanitary conditions of said city or any matter, place, or thing therein.

Pursuant to the authority thus granted, the board of health prescribed the following regulation:

A complete and adequate record shall be kept of every case of pulmonary tuberculosis examined or treated at a dispensary. The department of health may require, in its discretion, regular and uniform statistical reports relating to the examination, care, and treatment of all persons coming within the jurisdiction and control of such dispensary. Such records shall not be open to inspection by the public or to any person other than the representatives of the department of health of the city of New York and such persons as may be authorized by law to inspect such records.

The contention of the defendant company was that, since it was a party to the action, it was a person authorized by law to inspect the records in question, and hence the regulation did not forbid the granting of its motion. If, it contended, the regulation were construed otherwise, the department had exceeded its power under the charter and the rule was not a reasonable regulation but an unreasonable prohibition. The appellate term of the supreme court was of the opinion "that the mere fact that the applicant is a party to an action in which the records in question may be material or relevant to the issues does not make it a person authorized by law to inspect such records within the meaning of the regulation." "The purpose of the regulation," said the court, "was to forbid inspection by persons who, on general principles, might be entitled to inspect the records and to confine such inspection to persons who might be authorized by special provisions of law to make it." Neither did the court think that the regulation, so construed, was an unreasonable In this connection, it said:

* * * The papers submitted by the department in opposition to the application show that some regulation of this sort is highly desirable in the public interest. Persons suffering from contagious or infectious diseases, includ-

ing sufferers from tuberculosis, must be assured of the greatest secreey in dealing with their cases before their full cooperation with the public health authorities can be expected. The highly useful work of the department of health might be seriously interfered with to the prejudice of the community if its records in such cases were known to be subject to disclosure at the demand of any one having an interest in learning their contents.

DEATHS DURING WEEK ENDED JANUARY 2, 1932

Summary of information received by telegraph from industrial insurance companies for the week ended January 2, 1932, and corresponding week of 1931. (From the Weekly Health Index, issued by the Bureau of the Census, Department of Commerce)

Commercey	Week ended Jan. 2, 1932	Corresponding week, 1931
Policies in force	74, 151, 074	74, 607, 778
Number of death claims	13, 832	12, 754
Death claims per 1,000 policies in force, annual rate	9. 7	8. 9
Death claims per 1,000 policies, 53 weeks, annual		
rate	9. 6	9. 5

Deaths 1 from all causes in certain large cities of the United States during the week ended January 2, 1932, infant mortality, annual death rate, and comparison with corresponding week of 1931. (From the Weekly Health Index, issued by the Bureau of the Census, Department of Commerce)

[The rates furnished in this summary are based upon mid-year population estimates derived from the 1630 census]

	We	ek ende	1 Jan. 2,	1902		ponding , 1931	Death r 53 weeks	
City	Total deaths	Death rate 1	Deaths under 1 year	Infant mor- tality rate 1	Death rate !	Deaths under 1 year	Jan. 2, 1932	Jan. 3, 1931
Total (82 cities)	8, 256	12.0	594	4 48	13.6	819	11.8	11.9
Akron	45	8.9	6	59	6.3	3	7.6	7.8
Albany 5	28	11.3	2	40	11.4	2	14.1	14.7
Atlanta 6	94	17.7	8	79	20. 5	9	14.9	15.4
White	50	14.1	4	60	15. 3	6	11.5	11.5
Colored	44	24.6	4	115	31.0	3	21.6	23.5
Baltimore 8 6	247	15. 8	25	87	16.1	24	14.2	14.0
	189	14.8	17	78	14.3	17	12.9	
								12.7
Colored	58	20.6	8	128	24.3	7	19.9	19.7
Birmingham	76	14.7	10	100	16.3	9	13.0	13.6
White	38	11.9	6	102	10.3	2 7	10.0	10.1
Colored	38	19, 3	4	98	26, 1		17.9	19.3
Boston	199	13. 2	14	40	18.9	26	14.1	14.1
Bridgeport	35	12.4	4	67	12.4	4	11.1	10.9
Buffalo	144	12.9	8	36	13.8	25	12.8	12.9
Cambridge	19	8.7	2	41	17.4	1	12.0	12.6
Camden	37	16, 2	2	35	21.1	6	14.2	13.4
Canton	22	10.7	5	123	8.9	1	9.9	9.8
Chicago 5	733	11.1	43	39	11.5	59	10.4	10.4
Cincinnati	132	15.1	12	72	14.5	6	15.6	15.5
Cleveland	218	12.5	17	50	11.1	19	11.0	11.0
Columbus	81	14.3	5	49	14.5	9	13.4	15.3
Dallas 6	40	7.6	3		12.1	12	11.0	11.5
White	31	7.2	2		11.8	0	9.7	10.5
Colored	9	9.9	î		13.8	3	17.2	16.0
	43	9.7	Ô	0	11.5	1	10.4	9.7
	107	19.1	6	60	17. 2	14	13.9	15.0
Des Moines	29	10. 5	4	76	13. 5			11.6
	258	8.1	31	49		3	11.0	9, 2
1 11					8.6	23	8.1	
Duluth	14	7.2	1	27	12.3	1	11.1	11.6
El Paso	27	13.4	3		28. 4	16	14.9	17.3
Erie	35	15.5	2	. 41	9. 0	2	10.5	10.9
Fall River 17	20	9.0	0	0	12.7	5	11.1	11.5

See footnotes at end of table.

Deaths from all causes in certain large cities of the United States during the week ended January 2, 1932, infant mortality, annual death rate, and comparison with corresponding week of 1931—Continued

	We		eek ended	1 Jan. 2,	1932	Corres	ponding , 1931	Death:	rate 2 for ended—
Fort Worth	Total deaths	City		under	mor- tality		under	Jan. 2,	Jan. 3, 1931
Fort Worth*	26	Flint	8.3	4	50	9.6	5	6.8	8,1
White.	32	Fort Worth 6						10.5	11.
Colored 3 3 5.8 0 9.0 1 12.2 Crand Rapids 37 11.2 1 15 8.6 3 9.0 Houston 4 86 14.5 5 13.4 8 11.0 White 56 12.9 3 12.7 5 10.2 Colored 30 18.8 1 1 15.7 11 84 15.7 11 33.6 Colored 18 20.8 2 123 14.1 1 17.2 Colored 18 20.8 11.1 6 53 11.7 7 11.2 Kansas City, Kans. 6 14 5.9 2 44 12.8 1 12.4 White 10 5.2 2 53 12.6 1 11.7 Colored 18 20.8 12 12.4 White 19 2 12.4 Colored 19 2 12.5 12.4 Colored 19 2 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12	29	White	10.8	5		13.3		10.1	10.
Houston Se	3	Colored	5.8	0		9.9	1	12.2	13.1
Houston Se	37	Frand Rapids		1	15		3	9.0	10.
White. 56 12.9 3 12.7 5 10.2 Colored. 30 18.8 2 2 11.8 3 3.3 3.4 Indianapolis 111 15.7 11 84 15.7 11 13.6 White. 93 14.9 9 79 15.0 10 13.1 Colored. 18 20.8 2 123 14.1 1 17.2 Eversy City. 68 11.1 6 53 11.7 7 11.2 Kaness City, Kans. 14 5.9 2 44 12.8 1 12.4 White. 10 5.2 2 53 12.6 1 11.7 Colored. 4 8.9 0 0 13.7 0 15.2 Kaness City, Mo. 90 12.6 5 40 15.5 11 12.6 Knoxville 14 6.7 2 43 11.8 4 12.4 White. 13 7.4 2 49 12.9 4 11.6 Colored. 1 2.9 0 0 6.0 0 16.4 Colored. 1 2.9 0 0 6.0 0 16.4 Colored. 1 2.9 0 0 6.0 0 16.4 Colored. 32 12.8 12 35 14.4 23 10.8 Los Angeles. 323 12.8 12 35 14.4 23 10.8 Los Angeles. 323 12.8 12 35 14.4 23 10.8 Los Angeles. 323 12.8 12 35 14.4 23 10.8 Los Angeles. 323 12.8 12 30 13.7 13 13.7 White. 85 17.0 7 73 13.2 12 12.3 Colored. 27 29.5 5 359 16.5 1 21.2 Lowell 28 41.2 1 29 11.7 0 5 Memphis 88 17.7 15 160 22.4 15 16.3 White. 49 16.0 10 168 16.3 0 13.3 Colored. 39 20.6 5 145 32.3 6 21.2 White. 18 10.8 1 36 18.2 1 10.7 White. 19 14.3 4 79 12.6 4 4 4 White. 19 10.8 1 36 18.2 1 10.7 White. 19 14.8 1 3 3 5 10.8 White. 19 14.	86	Touston 4	14.5	5		13.4	8	11.0	12.
Indianapolis	56	White				12.7	5	10.2	10.1
White	30	Colored	18.8		******	15.3	3	13.4	15.
Fersoy City 68						15.7		13.6	14.
Fersoy City 68								13. 1	13.
White	18	Colored					1	17.2	21.
White	68	ersey City	11.1	6		11.7		11.2	11.3
Colored	14	Cansas City, Kans.	5.9	2		12.8		12.4	11.8
Kansas City, Mo. 99 12.6 5 40 15.5 11 12.6 Kansxille 6 14 6.7 2 43 11.8 4 12.4 White. 13 7.4 2 49 12.9 4 11.6 Colored. 1 2.9 0 0 6.0 0 16.4 Long Beach. 34 11.6 1 25 15.2 2 9.9 Los Angeles. 323 12.8 12 35 14.4 23 10.8 Louisville. 112 18.9 12 100 13.7 13 13.7 White. 85 17.0 7 73 13.2 12 12.3 Colored. 27 29.5 5 359 16.5 1 21.2 Lowell 2.5 2	10	White	0.2	2				11.7	11.
White.	4	Conses City Mo	10.0	0				10.2	14.
White.	14	Cnorville 6		9		11.0		19.4	13.
Colored	19	White	7.4	9	40	12.0	4	11.0	12.
Los Angeles	10	Colored	20	ñ		6.0	0		18.
Los Angeles	34	ong Beach	11.6		25	15. 2	2	0.0	10.
Louisville	323	os Angeles						10.8	11.5
White	112	ouisville	18.9	12	109	13.7	13	13.7	13.
Colored	85	White	17.0	7		13. 2		12.3	12.6
Lowell 7	27	Colored	29.5	5	359	16, 5	1	21. 2	21.0
White	27	owell 7	14.0	1	26	14.6	4	13.0	13.
White	28	ynn	14.2					9.5	10.
White	88	femphis	17.7			22, 4	15		16.1
Miamis 29 13.4 3 77 17.4 3 11.6 White	49	White				16.3			13.
White	39	Colored	20, 6			32.3			22.8
Colored 11 22.7 2 181 14.5 2 14.6 Milwaukee 82 7.2 8 36 7.9 11 9.0 Milmenapolis 92 10.1 6 39 13.2 15 10.8 Nashville 4 4 14.8 4 60 17.2 5 16.7 White 31 14.3 4 79 12.6 4 14.4 Colored 13 15.8 0 0 29.2 1 22.6 New Bedford 7 26 12.0 1 26 14.4 4 12.0 New Haven 37 11.9 4 61 12.2 0 12.5 New Orleans 6 146 16.3 12 67 23.2 26 16.5 White 73 11.4 5 42 19.0 15 13.5 Colored 73 23.3 7 116 33.6 11 24.0 New York 1,432 10.5 110 47 12.8 154 10.9 Bronx Borough 204 8.0 10 28 9.2 16 8.1 Brooklyn Borough 452 9.0 42 45 11.8 72 10.1 Manhattan Borough 577 16.6 46 61 19.3 49 16.4 Queens Borough 148 6.7 12 48 8.2 14 7.1 Richmond Borough 55 16.3 0 0 13.7 3 13.5 Newark, N. J. 104 12.2 6 32 14.0 10 11.4 Oakland 77 13.7 3 38 15.1 4 10.9 Oklahoma City 47 12.5 6 84 11.4 3 10.6 Omaha 58 14.0 2 23 19.7 9 13.7 Paterson 47 12.5 6 84 11.4 3 10.6 Omaha 58 14.0 2 23 19.7 9 13.7 Paterson 47 12.5 6 84 11.4 3 10.6 Omaha 58 14.0 2 23 19.7 9 13.7 Paterson 58 14.0 12 2 22 24 13.9 1 11.4 12.5 6 84 11.4 3 10.6 Omaha 58 14.0 2 23 19.7 9 13.7 Paterson 58 14.0 12 2 22 23 19.7 9 13.7 Paterson 58 14.0 12 2 22 24 13.9 1 12.5 6 84 11.4 3 10.6 Omaha 58 14.0 2 23 19.7 9 13.7 Paterson 58 14.0 12 22 22 23 19.7 9 13.7 Paterson 58 14.0 12 22 22 24 14.0 10 11.4 Peoria. 22 23 19.7 9 13.7 Paterson 58 14.0 12 22 22 24 14.0 10 11.4 Peoria. 22 23 19.7 9 13.7 Paterson 68 19.2 2 29 14.8 9 15.4 White 12.5 6 11.5 4 13.8 15.5 11.7 Poroidence 68 19.2 2 29 14.8 9 15.4 White 12.5 6 11.5 4 13.8 15.5 11.7 Poroidence 68 19.2 2 29 14.8 9 15.4 White 12.2 6 11.5 4 13.3 13.5 Newmark 11.1 4 14.1 4 13.3 10.6 3 14.1 Lake City 1 13.3 13.3 13.3 13.3 13.3 14.6 11.3 13.3 13.3 13.1 13.1 14.1 14.1 13.3 10.3 13.1 14.1 14.1 14.1 13.3 10.3 13.1 14.1 14.1 14.1 14.1 14.1 14.1 14			13.4			17.4			11.2
Milwaukee		White	10.8	1		18. 2	1		9.9
Minneapolis 92 10.1 6 39 13.2 15 10.8	11	Colored	22.7			14.0			15. 3
Nashville * 44 14.8 4 60 17.2 5 16.7 White	82	dinneanalis	10.1	8	36	12.9	11	10.0	9.6
White	44	Vachvilla 6	14.9			17 9	10		16. 4
Colored	21	White				12.6	4	14.4	13. 8
New Haven. 37 11. 9 4 61 12.2 0 12.5 White. 73 11.4 5 42 19.0 15 13.5 White. 73 11.4 5 42 19.0 15 13.5 Colored. 73 23.3 7 116 33.6 11 24.0 New York. 1, 432 10.5 110 47 12.8 154 10.9 Bronx Borough. 204 8.0 10 28 9.2 16 8.1 Brooklyn Borough. 452 9.0 42 45 11.8 72 10.1 Manhattan Borough. 577 16.6 46 61 19.3 49 16.4 Queens Borough. 148 6.7 12 48 8.2 14 7.1 Richmond Borough. 51 16.3 0 0 13.7 3 13.5 Newark, N. J. 104 12.2 6 32 14.0 10 11.4 Oklahoma City. 47 12.5 6 84 11.4 3 10.6 Omaha. 58 14.0 2 23 19.7 9 13.7 Paterson. 44 16.5 4 68 10.5 0 13.7 Paterson. 45 16.5 4 68 10.5 0 13.7 Petria. 29 13.9 1 26 16.8 2 12.3 Pittsburgh. 142 11.0 12 42 16.9 20 14.1 Portland, Oreg. 83 14.1 4 49 13.8 5 11.7 Portland, Oreg. 83 14.1 4 49 13.8 5 11.7 Portland, Oreg. 83 14.1 4 49 13.8 5 11.7 Portland, Oreg. 83 14.1 4 49 13.8 5 11.7 Portland, Oreg. 83 14.1 4 49 13.8 5 11.7 Portland, Oreg. 83 14.1 4 49 13.8 5 11.7 Portland, Oreg. 83 14.1 4 49 13.8 5 11.7 Portland, Oreg. 83 14.1 4 49 13.8 5 11.7 Portland, Oreg. 83 14.1 4 49 13.8 5 11.7 Portland, Oreg. 83 14.1 4 49 13.8 5 11.7 Portland, Oreg. 83 14.1 4 49 13.8 5 11.7 Portland, Oreg. 83 14.1 4 40 13.8 5 11.7 Portland, Oreg. 83 14.1 4 40 13.8 5 11.7 Portland, Oreg. 83 14.1 4 40 13.8 5 11.7 Portland, Oreg. 83 14.1 4 40 13.8 5 11.7 Portland, Oreg. 83 14.1 4 40 13.8 5 11.7 Portland, Oreg. 83 14.1 4 40 13.8 5 11.7 Portland, Oreg. 83 14.1 4 40 13.8 5 11.7 Portland, Oreg. 83 14.1 4 40 14.1 14.1 14.1 Portland, Oreg. 83 14.1 4 40 14.1 14.1 14.1 Portland, Oreg. 83 14.1 4 40 14.1 14.1	13	Colored	15.8	o l			i	22.6	23, 2
New Haven. 37 11. 9 4 61 12.2 0 12.5 White. 73 11.4 5 42 19.0 15 13.5 White. 73 11.4 5 42 19.0 15 13.5 Colored. 73 23.3 7 116 33.6 11 24.0 New York. 1, 432 10.5 110 47 12.8 154 10.9 Bronx Borough. 204 8.0 10 28 9.2 16 8.1 Brooklyn Borough. 452 9.0 42 45 11.8 72 10.1 Manhattan Borough. 577 16.6 46 61 19.3 49 16.4 Queens Borough. 148 6.7 12 48 8.2 14 7.1 Richmond Borough. 51 16.3 0 0 13.7 3 13.5 Newark, N. J. 104 12.2 6 32 14.0 10 11.4 Oklahoma City. 47 12.5 6 84 11.4 3 10.6 Omaha. 58 14.0 2 23 19.7 9 13.7 Paterson. 44 16.5 4 68 10.5 0 13.7 Paterson. 45 16.5 4 68 10.5 0 13.7 Petria. 29 13.9 1 26 16.8 2 12.3 Pittsburgh. 142 11.0 12 42 16.9 20 14.1 Portland, Oreg. 83 14.1 4 49 13.8 5 11.7 Portland, Oreg. 83 14.1 4 49 13.8 5 11.7 Portland, Oreg. 83 14.1 4 49 13.8 5 11.7 Portland, Oreg. 83 14.1 4 49 13.8 5 11.7 Portland, Oreg. 83 14.1 4 49 13.8 5 11.7 Portland, Oreg. 83 14.1 4 49 13.8 5 11.7 Portland, Oreg. 83 14.1 4 49 13.8 5 11.7 Portland, Oreg. 83 14.1 4 49 13.8 5 11.7 Portland, Oreg. 83 14.1 4 49 13.8 5 11.7 Portland, Oreg. 83 14.1 4 49 13.8 5 11.7 Portland, Oreg. 83 14.1 4 49 13.8 5 11.7 Portland, Oreg. 83 14.1 4 40 13.8 5 11.7 Portland, Oreg. 83 14.1 4 40 13.8 5 11.7 Portland, Oreg. 83 14.1 4 40 13.8 5 11.7 Portland, Oreg. 83 14.1 4 40 13.8 5 11.7 Portland, Oreg. 83 14.1 4 40 13.8 5 11.7 Portland, Oreg. 83 14.1 4 40 13.8 5 11.7 Portland, Oreg. 83 14.1 4 40 13.8 5 11.7 Portland, Oreg. 83 14.1 4 40 14.1 14.1 14.1 Portland, Oreg. 83 14.1 4 40 14.1 14.1 14.1 Portland, Oreg. 83 14.1 4 40 14.1 14.1	26	New Bedford !	12.0		26				11.1
White	37	New Haven	11.9	4		12.2	0		12. 8
White. 73 11.4 5 42 19.0 15 13.5 Colored. 73 28.3 7 116 33.6 11 24.0 New York 1,432 10.5 110 47 12.8 154 10.9 Bronx Borough 204 8.0 10 28 9.2 16 8.1 Brooklyn Borough 452 9.0 42 45 11.8 72 10.1 Manhattan Borough 577 16.6 46 61 19.3 49 16.4 Queens Borough 51 16.3 0 0 13.7 3 13.5 Newark, N. J 104 12.2 6 32 14.0 10 11.4 Oakland. 71 13.7 3 38 15.1 4 16.9 Oaklahoma City 47 12.5 6 84 11.4 3 10.6 Omaha 58 14.0 2 23 10.7 9 13.7 Paterson 41 16.5 4 68 10.5 0 13.7 9 13.7 Paterson 44 16.5 4 68 10.5 0 13.7 Paterson 58 14.0 2 23 10.7 9 13.7 Paterson 44 16.5 4 68 10.5 0 13.7 Peoria 29 13.9 1 26 16.8 2 12.3 Philadelphia 463 12.3 28 41 13.2 46 12.8 Pittsburgh 142 11.0 12 42 16.9 20 14.1 Portland, Oreg 83 14.1 4 49 13.8 5 11.7 Portland, Oreg 84 14.1 14 49 13.8 5 11.7 Portland, Oreg 85 14.0 14.1 11.3 3 10.3 Portland, Oreg 95 14.1 14 11.3 3 10.3 Portland, Oreg 95 14.1 14 11.3 3 10.3 Portland, Oreg 95 14.1 14 11.3 3 10.3 Portland, Oreg 95 14.8 9 15.4 Portland, Oreg 95 14.1 14 11.3 3 10.3 Portland, Oreg 95 14.1 14 14 14 14 11.3 3 10.3 Portland, Oreg 95 14.1 14 14 14 14 14 14 14 14 14 14 14 14 14	146	New Orleans	16.3	12	67	23. 2	26	16.5	17. 5
Colored	73	White	11.4			19. 0	15	13.5	14.5
Bronk Borough	73	Colored	28.3	7		33.6			25. 0
Brooklyn Borough	1, 432	New York			47				10.8
Manhattan Borough 577 16. 6 46 61 19.3 49 16. 4 Queens Borough 148 6.7 12 48 8.2 14 7.1 Richmond Borough 51 16.3 0 0 13.7 3 13.5 Newark, N. J. 104 12.2 6 32 14.0 10 11.4 Dakland 77 13.7 3 38 15.1 4 10.9 11.4 3 10.6 0 11.4 3 10.6 0 11.4 3 10.6 0 13.7 9 <t< td=""><td></td><td>Bronx Borough</td><td>8.0</td><td>10</td><td>28</td><td>9.2</td><td>16</td><td>8.1</td><td>7. 9</td></t<>		Bronx Borough	8.0	10	28	9.2	16	8.1	7. 9
Queens Borough 148 6.7 12 48 8.2 14 7.1 Richmond Borough 51 16.3 0 0 13.7 3 13.5 Newark, N. J 104 12.2 6 32 14.0 10 11.4 Oklahoma City 47 12.5 6 84 11.4 3 10.6 Omaha 58 14.0 2 23 19.7 9 13.7 Paterson 44 16.5 4 68 10.5 0 13.1 1 Peoria 29 13.9 1 26 16.8 2 12.3 Philadelphia 463 12.3 28 41 13.2 46 12.8 Pittsburgh 142 11.0 12 42 16.9 20 14.1 Portland, Oreg 83 14.1 4 49 13.8 5 11.7 Providence 56 11.5 4	452	Brooklyn Borough				11.8			9.8
Newark, N. J. 104 12.2 6 32 14.0 10 11.4 Oakland. 77 13.7 3 38 15.1 4 10.9 Oklahoma City 47 12.5 6 84 11.4 3 10.6 Omaha. 58 14.0 2 23 19.7 9 13.7 Paterson. 44 16.5 4 68 10.5 0 13.1 Paterson. 44 16.5 4 68 10.5 0 13.1 Paterson. 44 16.5 4 68 10.5 0 13.1 Portia. 29 13.9 1 26 16.8 2 12.3 Philadelphia 463 12.3 28 41 13.2 46 12.8 Pittsburgh. 142 11.0 12 42 16.9 20 14.1 Portland, Oreg. 83 14.1 4 49 13.8 5 11.7 Portland, Oreg. 83 14.1 4 49 13.8 5 11.7 Providence. 56 11.5 4 37 13.4 5 12.6 Richmond 6 68 19.2 2 29 14.8 9 15.4 White. 42 16.7 1 22 12.0 6 13.0 Colored. 26 25.6 1 43 21.6 3 21.3 Rochester. 63 9.9 3 28 13.3 5 11.7 Rochester. 63 9.9 9 3 28 13.3 5 11.7 St. Louis. 197 12.4 11 40 16.3 8 14.6 St. Paul. 48 9.1 4 41 11.3 3 10.3 salt Lake City 3 38 13.9 2 30 19.3 2 11.9 salt Alake City 4 38 13.9 2 30 19.3 2 11.9 salt Alake City 4 38 13.9 2 30 19.3 2 11.9 san Antonio. 61 13.2 3	577	Oncess Berough	10.6						16.0
Newark, N. J. 104 12.2 6 32 14.0 10 11.4 Dakland. 77 13.7 3 38 15.1 4 10.9 Daklahoma City 47 12.5 6 84 11.4 3 10.6 Dmaha 58 14.0 2 23 19.7 9 13.7 Paterson. 44 16.5 4 68 10.5 0 13.1 Paterson. 44 16.5 4 68 10.5 0 13.1 Paterson. 44 16.5 4 68 10.5 0 13.1 Paterson. 44 16.5 1 26 16.8 2 12.3 Philadelphia 463 12.3 28 41 13.2 46 12.8 Pittsburgh. 142 11.0 12 42 16.9 20 14.1 Portland, Oreg. 83 14.1 4 49 13.8 5 11.7 Portland, Oreg. 83 14.1 4 49 13.8 5 11.7 Providence 56 11.5 4 37 13.4 5 12.6 Richmond 6 68 19.2 2 29 14.8 9 15.4 White. 42 16.7 1 22 12.0 6 13.0 Colored. 26 25.6 1 43 21.6 3 21.3 Rochester. 63 9.9 3 28 13.3 5 11.7 Rochester. 63 9.9 1 3 28 13.3 5 11.7 Rochester. 63 9.9 1 3 28 13.3 5 11.7 Rochester. 63 9.9 3 28 13.3 5 11.7 Rochester. 11.7 Rochest	148	Richmond Borough	10.7			19.7		19 6	7. 1
Accessor	104	Newark, N. I	10.0						12.0
Accessor	77	akland	13 7	2		15.1		10.0	11. 1
Accessor	47	klahoma City	12.5		84	11.4	3		10.9
18.1 18.2 18.3 18.4 18.5	58	maha	14.0	2	23	19.7			13.6
Péoria 29 13.9 1 26 16.8 2 12.3 Philadelphia 463 12.3 28 41 13.2 46 12.8 Pittsburgh 142 11.0 12 42 16.9 20 14.1 Portland, Oreg 83 14.1 4 49 13.8 5 11.7 Providence 56 11.5 4 37 13.4 5 12.6 Richmond * 68 19.2 2 29 14.8 9 15.4 White 42 16.7 1 22 12.0 6 13.0 Colored 26 25.6 1 43 21.6 3 21.3 Ochester 63 9.9 3 28 13.3 5 11.7 ½. Louis 197 12.4 11 40 16.3 8 14.6 ½. Paul 48 9.1 4 41 11.3	44 1	aterson			68	10.5	0	13.1	12.0
Critisburgh	90	eoria	13.9	1	26	16.8	2	12.3	12.3
Critisburgh	463	'hiladelphia	12.3	28	41	13, 2	46		12.6
Stenmond 68 19.2 2 29 14.8 9 15.4	142	ittsburgh		12	42	16.9	20	14.1	13.9
Stenmond 68 19.2 2 29 14.8 9 15.4	83	oruand, Oreg	14.1	4	40	13.8	5	11.7	12.1
Colored. 26 25.6 1 43 21.6 3 21.3 8.6 chester. 63 9.9 3 28 13.3 5 11.7 8. Louis. 197 12.4 11 40 16.3 8 14.6 6 5. Paul. 48 9.1 4 41 11.3 3 10.3 cal Lake City 1 38 13.9 2 30 19.3 2 11.0 can Antonio. 61 13.2 3 16.6 11 14.1	56	ichmond 4	11.5	4	37		5	12.6	12.9
Colored. 26 25.6 1 43 21.6 3 21.3 8.6 chester. 63 9.9 3 28 13.3 5 11.7 8. Louis. 197 12.4 11 40 16.3 8 14.6 6 5. Paul. 48 9.1 4 41 11.3 3 10.3 ean Antonio. 61 13.2 3 16.6 11 14.4	68	White			29	19.8	9	10.4	14. 9 12. 2
Rochester 63 9.9 3 28 13.3 5 11.7 ½. Louis 197 12.4 11 40 16.3 8 14.6 ½. Paul 48 9.1 4 41 11.3 3 10.3 alt Lake City 1 38 13.9 2 30 19.3 2 11.9 an Antonio 61 13.2 3 16.6 11 14.1	90	Colored	25.6	1	49	21.0	0		21, 3
St. Louis	20	lochester	20.0	1 2	20		3	11.7	11. 5
5t. Faul. 48 9.1 4 41 11.3 3 10.3 calt Lake City 5 3 13.9 2 30 19.3 2 11.9 can Antonio 61 13.2 3 1.66 11 14.1	107	t. Louis	12.4	11	40		9		14.0
an Antonio	191	t. Paul	9.1	4		11 2	3	10.3	10. 1
an Antonio	28	alt Lake City 1	13.0	2		19.3	2		12.8
an Diego	61	an Antonio	13. 2	3		15, 6	11	14.1	15.8
10 14.31 01 01 17.81 41 13.8	43	an Diego	14.3	0	0	17.8	4	13.8	14.6
219 17.6 10 67 17.2 8 13.1	210	an Francisco	17.6	10	67	17. 2	8	13.1	13. 1
chenectady	20	cnenectady	10.8	2		7.1	2	10.9	10.9
Seattle 73 10.2 2 20 13.2 4 11.4 comerville 23 11.4 2 62 9.5 1 8.9	73	eattle	10.2	2		13. 2	4		11.0

See footnotes at end of table.

Deaths from all causes in certain large cities of the United States during the week ended January 2, 1932, infant mortality, annual death rate, and comparison with corresponding week of 1931—Continued

	We	ek ende	1 Jan. 2, 1	1932		ponding , 1931	Death rate ² for 53 weeks ended—	
City	Total deaths	Death rate 1	Deaths under 1 year	Infant mor- tality rate	Death rate ¹	Deaths under 1 year	Jan. 2, 1932	Jan. 3, 1931
South Bend. Spokane. Springfield, Mass. Syracuse. Tacoma. Toledo. Trenton. Utica. Washington, D. C.* White. Colored.	43 41 35 70 43 27 173 115	8. 2 10. 3 14. 7 10. 0 16. 9 12. 3 18. 1 13. 8 18. 4 16. 4	2 1 6 2 4 1 1 2 2 2 10 8	52 26 101 25 111 9 37 56 56 66 34	9. 4 15. 3 15. 6 13. 4 20. 5 11. 6 24. 1 14. 8 17. 5 15. 4 23. 1	1 3 2 7 4 4 1 13 6	8.0 12.3 11.4 11.5 12.5 11.7 16.2 14.3 15.9 13.5	9. 0 12. 4 12. 1 11. 6 12. 6 16. 5 14. 6 15. 2 13. 0 20. 0
Colored Waterbury Wilmington, Del.¹ Worcester Youkers Youngstown	15 35 48 18	7.8 17.1 12.7 6.8 12.7	1 1 4 0 3	25 23 57 0 41	12.0 14.7 13.6 8.9 10.7	3 2 3 2	9. 4 13. 8 12. 0 8. 3 9. 7	9. 4 14. 5 12. 8 8. 2 10. 4

¹ Deaths of nonresidents are included. Stillbirths are excluded.

² These rates represent annual rates per 1,000 population, as estimated for 1931 and 1930 by the arithmetical method.

Deaths under 1 year of age per 1,000 live births. Cities left blank are not in the registration area for

Deaths under 1 year of the births.

Deaths for week ended Friday.

Deaths for week ended Friday.

Deaths for week ended Friday.

For the cities for which deaths are shown by color, the percentages of colored population in 1930 were as follows: Atlanta, 33; Baltimore, 18; Birmingham, 38; Dallas, 17; Fort Worth, 16; Houston, 27; Indianapolis, 12; Kansas City, Kans., 19; Knoxville, 16; Louisville, 15; Memphis, 38; Miami, 23; Nashville, 28; New Orleans, 29; Richmond, 29; and Washington, D. C., 27.

Population Apr. 1, 1930; decreased 1920 to 1930, no estimate made.

PREVALENCE OF DISEASE

No health department, State or local, can effectively prevent or control disease without knowledge of when, where, and under what conditions cases are occurring

UNITED STATES

CURRENT WEEKLY STATE REPORTS

These eports are preliminary, and the figures are subject to change when later returns are received by the State health officers

Reports for Weeks Ended January 9, 1932, and January 10, 1931

Cases of certain communicable diseases reported by telegraph by State health officers for weeks ended January 9, 1932, and January 10, 1931

	Diph	theria	Infl	uenza	Me	asles		gococcus ingitis
Division and State	Week ended Jan. 9, 1932	Week ended Jan. 10, 1931						
New England States:								
Maine	6	1	8	1	548	7	3	0
New Hampshire	5	3			27	21	0	0
Vermont		1			193	14	0	0
Massachusetts	69	83	4	18	429	630	0	2
Rhode Island	12	2	4		866	1	1	1
Connecticut	9	17	9	10	104	271	1	1
Middle Atlantic States:								-
New York	104	125	1 26	1 438	773	376	15	17
New Jersey	51	79	25	73	78	326	1	3
Pennsylvania	145	151		******	1, 425	962	3	9
East North Central States:	-							
Ohio	94	44	14	12	121	158	11	8
Indiana	179	45 159	33	15	119	275 553	15	12
Illinois		55	6		53 165	150	2	5
Michigan	22 23	15	27	61	48	213	1	8
West North Central States:	25	15	21	61	43	213	1	
Minnesota	30	10	1	1	-69	15	3	
Iowa.	33	8			2	4		3
Missouri	57	56	3	23	10	1, 160	2	8
North Dakota	30	4		20	32	2, 100	2	2
South Dakota	5	8			21	5	1	21
Nebraska	18	6	11	3	19	18	Ô	1
Kansas	41	14	8	-	50	12	0	i
South Atlantic States:	-				-			
Delaware	4	4	3			5	. 0	0
Maryland 3	45	37	26	47	4	138	2	2
District of Columbia	21	15	3	2	2	11	2	1
Virginia								
West Virginia	48	19	36	41	301	25	1	3
North Carolina	67	47	22	35	125	90	0	1
South Carolina	12	21	429	890	43	17	Ö	4
Georgia 3	12	9	88	201	1	76	2	4
Florida	15	17	1	3		35	ō.	0

New York City only.
 Week ended Friday.
 Typhus fever, week ended Jan. 9, 1932, 9 cases: 1 case in North Carolina, 2 cases in Georgia, 2 cases in Alabama, and 4 cases in Texas.

Cases of certain communicable diseases reported by telegraph by State health officers for weeks ended January 9, 1932, and January 10, 1931—Continued

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	Diph	theria	Infla	ienza	Me	asles	Menin men	gococcus ingitis	
Division and State	Week ended Jan. 9, 1932	Week ended Jan. 10, 1931	Week ended Jan. 9, 1932	Week ended Jan. 10, 1931	Week ended Jan. 9, 1932	Week ended Jan. 10, 1931	Week ended Jan. 9, 1932	Week ended Jan. 10, 1931	
East South Central States:					20				
Kentucky Tennessee. Alabama ⁸ Mississippi West South Central States:	54 43 20 22	9 56 11	41 58	162 103	32 10 9	74 180 357	1 3 0 0	3 2 0 1	
Arkansas Louislana Oklahoma 4	22 32 47	11 46 32	26 25 44	56 138 85 84	3 14 6	6 5 49 60	0 0 0	0 5 1 2	
Texas ³ . Mountain States: Montana	164	50	62		13 221	3	1	1 0	
Idaho. Wyoming. Colorado. New Mexico. Arizona Utah ¹	1 15 21 4	8 6	2 3 5 1	13 13	1 8 4 4	12 41 100 50	0 0 2 1 0 0	1 3 1 3 2	
Pacific States: Washington Oregon California	4 3 82	9 6 62	45 123	39 92	372 35 207	39 67 272	1 0 6	318	
	Polion	nyelitis	Scarle	t fever	Smallpox		Typho	phoid fever	
Division and State	Week ended Jan. 9, 1932	Week ended Jan. 10, 1931	Week ended Jan. 9, 1932	Week ended Jan. 10, 1931	Week ended Jan. 9, 1932	Week ended Jan. 10, 1931	Week ended Jan. 9, 1932	Week ended Jan. 10, 1931	
New England States: Maine New Hampshire Vermont Massachusetts Rhode Island	3 0 0 1 0	0 0 0 2 0	40 14 4 440 35	18 4 9 274 31	0 0 3 0 0	0 0 0 0	1 0 0 11 0	4 0 1 6 0	
Connecticut Middle Atlantic States: New York New Jersey Pennsylvania	9 1 1	3 1 2	653 228 580	611 219 552	15 7 0 0	0 11 0 1	20 7 22	11 2 22	
Pennsylvania East North Central States: Ohio. Indiana Illinois. Michigan Wisconsin	0 0 5 5	4 1 3 0 1	338 153 429 194 95	527 287 446 258 122	29 4 34 20 8	92 90 50 18 0	10 7 10 9	9 3 5 7	
West North Central States: Minnesota Iowa Missouri North Dakota South Dakota Nebraska Kansas	3 1 0 1 0 0	0 4 2 1 0 2 2	99 43 75 14 6 24 40	54 156 165 35 16 49 53	14 78 26 79 8 12 2	12 37 28 15 34 50 106	1 1 4 1 2 1 6	0 1 6 0 1 1 1	
South Atlantic States: Delaware Maryland ² District of Columbin	0 0 1	0 0	13 100 23	22 83 43	0 0	0 0	0 8 1	0 2 1	
Virginia West Virginia North Carolina South Carolina Georgia Florida West and de Friday	0 1 0 0 0	0 0 0 0 0	48 84 16 24 4	37 75 16 43 4	0 0 2 0 0	1 8 7 1 0 6	13 6 12 13 5	10 6 4 7 1	

Week ended Friday.
 Typhus fever, week ended Jan. 9, 1932, 9 cases: 1 case in North Carolina, 2 cases in Georgia, 2 cases in Alabama, and 4 cases in Texas.
 Figures for 1932 are exclusive of Oklahoma City and Tulsa.

Cases of certain communicable diseases reported by telegraph by State health officers for weeks ended January 9, 1932, and January 10, 1931—Continued

	Poliomyelitis		Scarlet fever		Smallpox		Typhoid fever	
Division and State	Week ended Jan. 9, 1932	Week ended Jan. 10, 1931						
East South Central States:								
Kentucky	3	1	97	80	0	11	12	- 9
Tennessee	1	î	97 71	17	10	4	17.	3
Alabama 3	2	â	46	48	3	2	9	0
Mississippi	0	2	18	19	11	0	8	9
West South Central States:		-			**			
Arkansas	0	0	19	70	8	11	9	
Louisiana	0	1	14	8	7	6	17	14
Oklahoma 4	2	0	42	46	4	100	9	14
Texas 1	1	0	111	51	19	48	14	
Mountain States:	1		111	01	19	40	1.0	v
	0		51	43				
Montana	0	0	91	4	5 2	0	0	2
		0	6	16	0	1	0	0
Wyoming	0	1	58	34	0	1	1	0
Colorado.	1	0			4	24	0	1
New Mexico	1	0	18	7	0	2	1	1
Arizona	0	0	7	2	2	0	1	
Utah 2	0	0	10	4	3	2	0	0
Pacific States:	-							-
Washington	0	0	56	32	31	27	3	3
Oregon	0	0	19	22	17	10	3	0
California	3	5	141	97	. 16	59	4	4

Week ended Friday.
 Typhus fever, week ended Jan. 9, 1932, 9 cases: 1 case in North Carolina, 2 cases in Georgia, 2 cases in Alabama, and 4 cases in Texas.
 Figures for 1932 are exclusive of Oklahoma City and Tulsa.

SUMMARY OF MONTHLY REPORTS FROM STATES

The following summary of cases reported monthly by States is published weekly and covers only those States from which reports are received during the current week.

State	Men- ingo- coccus menin- gitis	Diph- theria	Influ- enza	Ma- laria	Mea- sles	Pel- lagra	Polio- mye- litis	Scarlet fever	Small- pox	Ty- phoid fever
November, 1931 Arkansas Michigan Mississippi December, 1931	14 5	234 210 301	37 3 1, 243	67 1 2, 322	35 326 27	22 342	3 45 2	137 787 154	11 64 44	50 48 40
Arizona Connecticut Georgia Iowa Maine Nebraska Tennessee	2 5 6 6 1 1 1	52 32 111 124 62 88 266	33 28 184 13 10 106	2 1 94 37	10 250 9 16 1, 467 61 49	22	2 8 2 12 2 1 3	33 259 102 186 144 111 211	241 0 26 26 21	2 8 35 8 9 7 67

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1 2 3 4 5 6 7 8 9 10 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22.

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November, 1931		Imperio comognosa.	Cases
Chicken pox:	Cases	Iowa	
Arkansas	34	Tennessee	3
Michigan	763	Lethargic encephalitis:	
Mississippi	238	Connecticut	4
Dengue:		Mumps:	
Mississippi	6	Arizona	11
Dysentery:		Connecticut	175
Mississippi (amebic)	42	Georgia	
Lethargic encephalitis:		Iowa	33
Michigan	. 3	Maine	14
Mumps:		Nebraska	
Arkansas	. 7	Tennessee	
Michigan		Ophthalmia neonatorum:	
Mississippi		Tennessee	8
	- 10	Paratyphoid fever:	-
Ophthalmia neonatorum:	. 1	Connecticut	5
Arkansas		Maine	
Mississippi		Rabies in animals:	
Puerperal septicemia:		Connecticut	9
Mississippi	15		
Rabies in animals:		Septic sore throat:	18
Mississippi	. 1	Connecticut	
Septic sore throat:		Georgia	
Michigan	37	Maine	2
Trachoma:		Nebraska	
Arkansas	. 3	Tennessee	13
Mississippi	. 10	Tetanus:	
Tularaemia:		Tennessee	1
Michigan	1	Trachoma:	
Undulant fever:		Arizona	
Mississippi	2	Tennessee	1
Whooping cough:		Trichinosis:	
Arkansas	. 55	Connecticut.	2
Michigan		Tularæmia:	
Mississippi		Iowa	6
M1301001ph	-	Tennessee	7
December, 1931		Typhus fever:	
Chicken pox:		Georgia	8
Arizona	152	Undulant fever:	
Connecticut		Arizona	1
Georgia.		Connecticut	2
Iowa		Iowa	5
Maine	152		1
		Nebraska	1
Nebraska	70	Tennessee	
Tennessee	10	Vincent's angina:	
Dengue:		Iowa	6
Georgia	1	Maine	5
Dysentery:		Whooping cough:	
Georgia	3	Arizona	16
Tennessee	2	Connecticut	232
German measles:	100	Georgia	24
Arizona	1	Iowa	118
Connecticut	27	Maine	.99
Iowa	5	Nebraska	18
Maine	25	Tennessee	159
Hookworm disease:	11 11		
Tennessee	1		

ADMISSIONS TO HOSPITALS FOR THE INSANE, DECEMBER, 1929

Reports for the month of December, 1929, showing new admissions to hospitals for the care and treatment of the insane, were received by the Public Health Service from 100 hospitals, located in 40 States, the District of Columbia, and the Territory of Hawaii. The 100 hospitals had 184,607 patients on December 31, 1929, 98,458 males and 86,149 females, the ratio being 114 males per 100 females.

The following table shows the number of new admissions for the month of December, 1929, by psychoses:

in the same of the same of	Number	of first ada	missions
Psychoses	Male	Female	Total
1. Traumatic psychoses	14	3	11
		134	309
Senile psychoses Psychoses with cerebral arteriosclerosis	154	104	259
4. General paralysis		38	23
5. Psychoses with cerebral syphilis		11	31
6. Psychoses with Huntington's chorea	1	1	-
		0 1	
7. Psychoses with brain tumor	30	18	4
		10	11
9. Alconolic psychoses	19	14	3
1. Psychoses with pellagra	8	22	36
2. Psychoses with other somatic diseases		49	9
3. Manic-depressive psychoses	144	249	390
4. Involution melancholia	34	54	80
5. Dementia præcox (schizophrenia)	334	249	582
6. Paranoia and paranoid conditions.	26	19	4
7. Epileptic psychoses		44	90
8. Psychoneuroses and neuroses	23	34	
9. Psychoses with psychopathic personality		9	57 24
0. Psychoses with mental deficiency	59	34	90
1. Undiagnosed psychoses	97	90	187
2. Without psychosis.	187	38	225
Total	1,730	1, 223	2, 953

During the month of December, 1929, there were 2,953 new admissions to the hospitals, 58.6 per cent of these being males and 41.4 per cent females, the ratio being 141 males per 100 females. Four hundred and twelve of the new admissions were reported as undiagnosed or "without psychosis." There were 2,541 new admissions for which a provisional diagnosis was made. Of these 2,541 patients, cases of dementia præcox constituted 22.9 per cent; manic-depressive psychoses, 15.5 per cent; senile psychoses, 12.2 per cent; psychoses with cerebral arteriosclerosis, 10.2 per cent; and general paralysis, 9.1 per cent. These five classes accounted for 69.8 per cent of the new admissions for which a diagnosis was given.

The following table shows the number of patients in the hospitals and on parole on December 31, 1929:

	Total patients on books			
	Male	Female	Total	
Total patients on books last day of month: In hospitals On parole or otherwise absent, but still on books	87, 735 10, 723	77, 556 8, 593	165, 291 19, 316	
Total	98, 458	86, 149	184,600	

Of the 184,607 patients, 10,723 males and 8,593 females were on parole or otherwise absent but still on the books at the end of the month—10.9 per cent of the males, 10.0 per cent of the females, and 10.5 per cent of the total number of patients.

GENERAL CURRENT SUMMARY AND WEEKLY REPORTS FROM CITIES

The 93 cities reporting cases used in the following table are situated in all parts of the country and have an estimated aggregate population of more than 33,190,000. The estimated population of the 87 cities reporting deaths is more than 31,760,000. The estimated expectancy is based on the experience of the last nine years, excluding epidemics.

Weeks ended January 2, 1932, and January 3, 1931

	1932	1931	Estimated expectancy
Cases reported	1		
Diphtheria:		-	
. 46 States	1, 595	1, 480	
93 cities	461	499	914
Measles:			
45 States	4, 642	4, 933	
93 cities	1, 223	1,765	
Meningococcus meningitis:		174.5	
46 States	79	121	
93 cities	42	54	
Poliomyelitis:		100	1.77
46 States	51	65	
Scarlet fever:			Test.
46 States.	4, 203	4, 469	
93 cities	1, 443	1, 434	1, 247
Smallpox:		1000	
46 States	339	662	
93 cities	21	43	26
Typhoid fever:			
46 States	255	196	
93 cities	31	32	27
Deaths reported			
Influenza and pneumonia:			
87 cities	817	1,075	
Smallpox:	011	2,015	
87 cities	0	. 0	
	0	U	

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City reports for week ended January 2, 1933

The "estimated expectancy" given for diphtheria, poliomyelitis, scarlet fever, smallpox, and typhoid fever is the result of an attempt to ascertain from previous occurrence the number of cases of the disease under consideration that may be expected to occur during a certain week in the absence of epidemics. It is based on reports to the Public Health Service during the past nine years. It is in most instances the median number of cases reported in the corresponding weeks of the preceding years. When the reports include several epidemics, or when for other reasons the median is unsatisfactory, the epidemic periods are excluded, and the estimated expectancy is the mean number of cases reported for the week during nonepidemic years.

If the reports have not been received for the full nine years, data are used for as many years as possible, but no year earlier than 1922 is included. In obtaining the estimated expectancy, the figures are smoothed when necessary to avoid abrupt deviation from the usual trend. For some of the diseases given in the table the available data were not sufficient to make it practicable to compute the estimated expectancy.

		Diph	theria	Influ	ionza		-	-
Division, State, and city	Chicken pox, cases reported	Cases, estimated expect- ancy	Cases reported	Cases reported	Deaths reported	Measles, cases reported	Mumps, cases reported	Pneumo- nia, deaths reported
NEW ENGLAND			1	-				m.i
Maine: Portland	6	1	3		0	23	0	2
New Hampshire:	0	. 0	0		0	0		
Concord Nashua Vermont:	2	0	0		ő	0	0	0
Barre		0	********		********			
Massachusetts:		40				-		
Boston Fall River	0 2	43	19	5	1 0	7 3	9	8
Springfield	10	5	0		0	3	10	2
Worcester	5	6	10		0	1	32	7
Rhode Island:	0					0	0	
Pawtucket Providence	1	1 7	0		0	463	8	
Connecticut:			0			300	0	
Bridgeport	3	6	0		0	1	0	6
Hartford New Haven	18	7 0	0		0	0	14 15	3
MIDDLE ATLANTIC								
New York:		-						
Buffalo	34	13	. 5		2	3	0	19
New York	116	170	100	16	2 4 0	36	48	161
Rochester	7	6 2	2 0		0	36	7	1
New Jersey:	20	-						
Camden	. 3	5	2		2	0	0	3
Newark	25	17	2 0	6	0	1	1	- 6
TrentonPennsylvania:	2	2	0		0	0	6	1
Philadelphia	77	61	4	9	4	3	19	55
Pittshurgh	23	21	11	1	0	124	29	29
Reading	20	1	0		0	1	2	2
EAST NORTH CENTRAL								
Obio:								
Cincinnati	8	10	4		3	0	0	9
Cleveland	73	36	0	17	2 0	84	58	18
Columbus	9	5 9	4	1	0	0	2	8
ToledoIndiana:	33	9			0	2	2	3
Fort Wayne	3	3	13		0	0	0	2
Indianapolis	36	9	0		0	0	15	16
South Bend	1	1	0		0	1	0	2
Terre Haute	5	0	1		0	0	- 0	3
Chicago	76	121	44	13		33	6	55
l'eoria	14		1		0	1	1	2
Springfield		1 -			********			
fichigan: Detroit	31	60	28	5	2	2	6	18
Flint	9	2	0	0	0	1	26	2
Grand Rapids	7	1	1	1	2	23	. 01	ō

		Diph	theria	Inflo	ienza	1.84SI.		
Division, State, and city	Chicken pox, cases reported	Cases, estimated expect- ancy	Cases reported	Cases reported	Deaths reported	Measles, cases reported	Mumps, cases reported	Pneumo- nia, deaths reported
EAST NORTH CEN-								100
Wisconsin:								
Kenosha Madison	10	0 2	0		0	1 7	0	
Milwaukee	62	17	2 0	3	3	7	17	4
Racine	6	2 0	0		0	1 0	24	
WEST NORTH CENTRAL								
Minnesota:	Tel min	100		1265				976
Duluth	4	0	0		0	0	0	2
Minneapolis St. Paul	18 10	16 8	5 2	1	0	0 2	0	10
Iowa: Davenport	0	1	0			0	0	The same of the sa
Des Moines	0	1 1	2 8			1 0	ő	
Sioux City	9	1	8			0	0	
Waterioo Missouri:	2	0	0			0	0	
Kansas City	12	6	7		0	1	0	5
St. Joseph St. Louis	2	0	4		0	0	0	2
North Dakota:	10	40	23	3	1	4	2	4
Fargo	8	0	. 0		0	11	1	1
South Dakota:								
Aberdeen Sioux Falls	8	0	0			14	0	
Nebraska:		"				0		
Omaha	11	5	5		0	1	1	6
Kansas: Topeka	6	1	1		1	0	1	0
Wichita	10	2	13		ô	i	ő	i
SOUTH ATLANTIC			1	0			7	
Delaware:					2011			
Wilmington	1	1	0		0	0	0	2
Maryland: Baltimore	10			10				
Cumberland	18	25	9	19	1 0	3 0	23	38
Frederick	0	0	2		0	ő	ő l	Ô
District of Columbia: Washington	7	10					-	**
Virginia:	1	16	3	3	3	2	0	16
Lynchburg Norfolk	1	2	4		0	0	0	4
Richmond	1 4	2 2 6	4	1	3 0	0	0	1
Roanoke	3	2	6 3		0	2	0 2	4 2
West Virginia: Charleston								
Huntington	5	1	1		0	3	0	0
Wheeling	2	1	0		0	1 2	0	1
North Carolina:								
Raleigh Wilmington	6	1	0		0	27	0 1	3
Winston-Salem	8	1	1 2	1	0	0	0	0
Winston-Salem Bouth Carolina:								
Charleston Columbia	0	0	1	24	0	1	0	1
Greenville	0	0	0		0	0	0	8
Greenville							0	
Atlanta	6	6	1	16	1	0	1	8
Brunswick	0	0	1 0	13	0	0	0	0
Florida: Miami				10			110	
Minmi	0	0	1 .	100000000000000000000000000000000000000	0	0	0	0

		Diph	theria	Influ	ienza			_
Division, State, and city	Chicken pox, cases reported	Cases, estimated expect- ancy	Cases reported	Cases reported	Deaths reported	Measles, cases reported	Mumps, cases reported	Pneumo- nia, deaths reported
EAST SOUTH CENTRAL								
Kentucky: Covington Lexington	2	0	2		0	0	0	2
Tennessee: Memphis Nashville	0	5 2	6		0 2	0	0	0
Alabama: Birmingham Mobile Montgomery	2 0 0	5 1 1	9 0 1	4	2 0	0 0	3 0 1	4 6
WEST SOUTH CENTRAL								4
Arkansas: Fort SmithLittle Rock	0	0 1	3 0		1	0	0	11
Louisiana: New Orleans Shreveport	0 3	14	0	2	6 0	0 13	0	6
Oklahoma: Muskogee Texas: Dallas	0 2	13	3 14	1	1	0	2	7
Fort Worth Galveston Houston San Antonio	3 0 0	6 0 8 4	10 1 14 2		0 0 0 5	0 0 0	0 0	1 11 4
MOUNTAIN							-	
Montana: Billings Great Falls Helena Missoula	1 1 0 0	0 0 0	0 0 0 0		0 0 0	5 0 54 0	0 0 0 0	0 0 0 1
BoiseColorado:		0						
Denver Pueblo New Mexico:	15 5	8	- 4		14	0	10	14 2
Albuquerque	7	1	1		0	2 0	0	3
Phoenix Utah: Salt Lake City	29	3	0		0	0	1	1
Nevada: Reno	0	. 0	0		0	0	0	1
PACIFIC						. 9		
Washington: Seattle	25	4	0	*******		160	7	
Spokane Tacoma Oregon:	6	1 2	0		0	1	1	7
Portland	6 9	7 0	1 0	8	1 0	1 0	. 3	3 0
Los Angeles Sarramento San Francisco	66 2 30	35 2 16	29 2 0	82	3 0 3	1 83 2	14 0	31 13 22

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Georgia Plori

	Scarle	t fever		Smallpo	Z)	Tuber-	Ty	phoid f	ever	Whoop-	
Division, State, and city	Cases, esti- mated expect- ancy	Cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	culo- sis, deaths re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	ing cough, cases re- ported	Deaths, all causes
NEW ENGLAND					1-1						-
Maine:	2	4	0	0	0	0	0	0	0	5	18
Portland New Hampshire:											-
Concord Nashua	0	2	0	0	0	0	0	0	0	0	11
Vermont:											
Massachusetts:	1		0		*******		0		******		
Boston	74	129	0	0	0	11	1	2	0	16	199
Fall River	3 9	8	0	0	0	0	0	1 0	0	3	21 48
Springfield Worcester	11	37	ő	Ö	0	2	Ö	1	0	31	
Rhode Island: Pawtucket	2	0	0	0	- 0	0	.0	0	0	0	15
Providence	11	25	0	0	. 0	3	0	ő	0	5	56
Connecticut:.		-					0	0	0	2	35
Bridgeport Hartford	10	7	0	8	0	0	0	0	0	7	49
New Haven	4	3	0	0	0	0	0	1	0	8	37
MIDDLE ATLANTIC			-				-			1	
New York:										1	
Buffalo	25	49 229	0	0	0	4	0	0	0	19	142
New York Rochester	186 11	47	0	0	0	70	8	4	0	87	1, 432
Syracuse New Jersey:	ii	17	0	0	0	2	0	Ö	0	55	41
New Jersey: Camden		12	0	0	0	0	0	0	0	4	37
Newark	19	21	0	Ö	0	9	0	0	0	47	106
Trenton	4	2	0	0	0	2	0	0	0	2	43
Pennsylvania: Philadelphia	84 36	117	0	0	. 0	22	2	2	0	178	463
Pittsburgh Reading	36	42	0	0	0	7	0	0	0	23	142
						1					
CENTRAL					44				197	5 4	
Ohio: Cincinnati	18	44	0	0	0	15	1	0	0	4	132
Cleveland	40	35	0	0	0	11	0	0	0	104	218 81
Columbus	11 13	44 35 12 10	1 1	0	0	2	0	2	1 0	16 39	70
Indiana:	-	-								-	25
Fort Wayne Indianapolis	9	1 3	0 5	0	0	1 2	0	0	0	0	20
South Bend	3	3	0	0	0	0	0	0	0	2	. 16 20
Terre Haute	3	3	0	0	0	1	0	0	0	0	20
Chicago	122	137	1	11	0	30	3	2	0	106	733
Peoria	2	4	0	0	0	0	0	0	0	10	29
Springfield Michigan:										3197	020
Detroit	96 12	102	0	0	0	17	0	0	0	61	258 26
Grand Rapids	ii	ii	0	ő	o l	2	0	0	0	6	37
Wisconsin:	3	2		0	0	0	0	0	0		9
Kenosha Madison	3	0	ô	0			0	0 .		3	
Milwaukee	29	18	0 0	0	0	3	0	0	0	60	82 14
Racine	3	0	0	0	0	0	0	0	0	0	8
WEST NORTH CENTRAL											
Minnesota:											
Duluth	10	23	0	0	0	1 1	0	0	0	0	14 92
St. Paul	25	20	1 0	0	0	il	01	. 0	1	6	49

	Scarle	t fever		Smallpe	X	Tuber-	Ту	phoid f	lever	Whoop-	1114
Division, State, and city	Cases, esti- mated expect- ancy	Cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths - re- ported	culo- sis, deaths re-	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	ing cough, cases re- ported	Deaths, all causes
WEST NORTH CENT-											
Iowa: Davenport Des Moines Sioux City Waterloo	1 8 2 3	3 3 1 0	0 1 0 0	1 0 2 0			0000	0 0 0 1		0 0 3 4	20
Missouri: Kansas City St. Joseph St. Louis	15 2 37	8 2 16	0 0 1	0	0	5 0 13	0 0 1	0	0	9 0 37	99 25 197
North Dakota: Fargo South Dakota:	2	1	0	0	0	0	0	0	0	1	10
Sioux Falls	0	1 0	0	0			0	0		2 0	6
Nebraska: Omaha Kansas:	6	4	2	0	0	4	0	0	0	3	58
Topeka	2 5	1 2	0	0	0	0	0	0	0	12 3	25
SOUTH ATLANTIC	gir.								1	1	
Delaware: Wilmington Maryland:	2	. 6	0	0	0	1	0	0	0	0	35
Baltimore Cumberland Frederick	30 0 0	23 5 5	0	0	0	11 2 0	0 0	0 0	0	109 0 3	247 5
District of Colum- bia: Washington	24	23	0	0	0		1	1	0	14	173
Virginia: Lynchburg		2 11				0	0	0		0	
Norfolk Richmond Roanoke	1 2 7 3	27 3	0	0	0	1	0 0	0	0	0	51 24
West Virginia: Charleston Huntington Wheeling	2	3 1 2	0	0	0	0 1	0	11 0 0	1 0 1	0 0 1	1 26
North Carolina: Raleigh	1	1	0				0			0	13
Wilmington Winston-Salem South Carolina:	1 2	0	0	0	0	0 0 2	0	0	0	10 7	11
Columbia Greenville	0	0 2 0	0	0	0	0 0	0	0	0	0 0 2	22
Georgia: Atlanta Brunswick Savannah	5 0 1	8 0	1 0	0	0	3 0 1	0	0	0	0 1	94 2 42
Florida: Miami	2	0	0	0	0	2 1	0	0	0	0	29
Tampa	2	1	0	0	0	1	0	0	0	1	21
Kentucky: Covington	2	5						10.4			
Lexington		1	0	0	0	0 .	0 -	0	0	3	27
Memphis Nashville	7 8	1	0	0	0	8	1 0	3	0	3 5	88 44
Birmingham Mobile Montgomery	3 0	4 8	1 0	0	0	1	1 0	0 0	0	0	76 28

Division, State,	-			THE RESERVE		Tuber-	uber-		Typhoid fever		
and city	Cases, esti- mated expect- ancy		Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	culo- sis, deaths re-	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	Whooping cough, cases re-	Deaths all causes
WEST SOUTH CENTRAL							-			Permi	
Arkansas: Fort Smith Little Rock	0 2	2 3	0	0	0	3	0	0	. 0	0 3	
New Orleans Shreveport	7 2	11 3	0	0	0	16 0	2 0	1 0	1 2	3	14
klahoma: Muskogee Nexas:		2		0				0		2	
Dallas	7 2 0 3 2	11 7 0 2 0	1 0 0 1	0 2 0 0	0 0 0	1 1 0 3 8	0 0	0 0 0	0 0 0	0 0	8
MOUNTAIN		1									
Montana: Billings Great Falls Helena Missoula	1 3 0 0	0 1 0 5	0	0 0 0	0 0 0	0 1 0 0	0 0 0	0 0 0	0 0 0	0 0	11
daho: Boise	1		0				0				
Colorado: Denver Pueblo Iew Mexico:	13 I	16 0	0	0	0	4 0	0	0	0	2 0	10
Albuquerque	0	1	0	0	0	3	0	0	0	1	I I
Phoenix	0	0 2	0	0	0	0	0	0	0	3	3
levada: Reno	0	0	0	0	0	1	0	0	0	1 0	217
PACIFIC					- 1		1	- 1		School	
Vashington: Seattle	8 7	11	1 4	0	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~		1 0	1		- Deligible - Deligible - Aprilian	0.74
Spokane Tacoma Oregon:	4	1	3	1	0	0	0	0	0	. 0	3
Portland	8	3	0	0	0	0	0	0	0	1	8
Los Angeles Sacramento San Francisco.	33 2 17	37 0 4	1 1 1	0	0 0	19 2 13	0 0	0 0 3	0 0	14 0 0	32 46 280
			1 3	feningo coccus eningiti	Leti	nargic er phalitis	a- Po	ellagra		omyelitis ile paraly	
Division, Sta	te, and	elty	Cas		hs Case	s Deat!	as Case	s Death	Case: esti- mate expec- ancy	d Cases	Death
of the second							0			400	ng V +
Maine: Portland	GLAND			1.	0 0	1	0 0		0	0 1	10 m
Massachusetts: Boston	******		1	1	0 0		0 0		0	0 1	mak 1

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	00	ningo- ocus ingitis	Lethi	rgic en- halitis	Pe	llagra	Polion tile	yelitis paraly	(Infan-
Division, State, and city	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases, esti- mated expect- ancy	Cases	Deaths
MIDDLE ATLANTIC						1			
New York:	1								
New York 1	5	1	0	1	0	0	1	4	0
Pennsylvania: Pittsburgh	1	0	0	0	0	0	0	0	0
EAST NORTH CENTRAL		-		11.0					
Ohio:	1	0	0	. 0	0	0	0	0	0
Cincinnati	1	0	1	0	0	1	0	0	0
Indiana:	17	5	0	0	0	0	0	0	0
Indianapolis South Bend	1	0	0	0	0	0	0	0	0
Illinois: Chicago	6	4	0	0	0	0	1	2	0
Michigan:	0	1	0	0	0	0	0	0	
DetroitFlint	0	Ô	0	1	0	ő	0	0	0
Wisconsin:	1	1	0	0	0	0	0	0	0
Milwaukee									
WEST NORTH CENTRAL		15	10						
Minnesota: Minneapolis	1	1	0	0	0	0	0	0	
St. Paul	i	0	0	0	0	0	0	1	0
Iowa: Des Moines	1	0	0	0	0	0	0	0	0
Missouri:		130				- 6		0	0
St. Louis North Dakota:	1	0	0	0	0	0	0	0	
Fargo	0	1	0	0	0	0	0	0	0
Kansas: Topeka	0	0	0	0	1	0	0	0	0
SOUTH ATLANTIC 1		1		1				188	1975
Maryland:	100	1.4		1		1			
Baltimore	0	0	1	.0	0	0	0	0	0
District of Columbia: Washington	1	1	0	0	0	0	0	0	
South Carolina:									
Charleston	0	0	0	0	0	1	0	0	
EAST SOUTH CENTRAL	1	13.18				100	0.0		-
Tennessee:	1	1		-	Time.	1.5%	100	1	100
Memphis	0 2	0	0	0	1 0	1 0	0	. 0	1
Nashville	2	1	0				1	-	93
WEST SOUTH CENTRAL		13.3		1 35	138				
Louisiana:							0	0	
New Orleans Texas:	1	1	0	0	1	1		1	
Fort Worth	0	0	0	0	0	1	0	0	
MOUNTAIN			100						
New Mexico:		1					1	1	
Albuquerque	0	1	0	0	0	0	0	0	
Calle PACIFIC		-34		23%	2000	- 31	1		
California: Los Angeles	0	0	0	0	0	0	1	1	
Sacramento	1	1	0	0	0	0	0	0	1
San Francisco	. 0	0	0	0	0	0	0	2	

¹ Typhus fever, 3 cases and 1 death: 1 case and 1 death at New York City, N. Y.; and 2 cases at Savannah, Ga.

The following table gives the rates per 100,000 population for 98 cities for the 5-week period ended January 2, 1932, compared with those for a like period ended January 3, 1931. The population figures used in computing the rates are estimated mid-year populations for 1930 and 1931, respectively, derived from the 1930 census. The 98 cities reporting cases have an estimated aggregate population of more than 33,000,000. The 91 cities reporting deaths have more than 31,500,000 estimated population.

Summary of weekly reports from cities, November 29, 1931, to January 2, 1932-Annual rates per 100,000 population, compared with rates for the corresponding period of 1930-311

DIPHTHERIA CASE RATES

					Week	ended-	1		- Julia	fr.
	Dec. 5, 1934	Dec. 6, 1930	Dec. 12, 1931	Dec. 13, 1930	Dec. 19, 1981	Dec. 20, 1686	Dec. 26, 1931	Dec. 27, 1900	Jan 2, 1982	Jan. 3, 1901
98 cities	101	¥ 90	93	1 87	103	. 194	72	71	172	80
New England	58 64	121 58	70 59	128 47	84 71	143	65 57	75 47	* 85 56	114 68 91 80 62 72
Middle Atlantic	94	112	86	120	104	116	60	102	5 65.	91
West North Central	222	101	168	97	187	89	134	54	130	. 80
South Atlantic	164	112	118	122	118	108	99	86	71	62
East South Central	163	143	163	138	157	84	111	84	6 107	. 72
West South Central	244	2 147	287	2 132	189	2 202	115	143	129	136
Mountain	52	18	26	26	96	18	26	62	7 36	62 58
Pacific	88	65	61	55	82	83	41	. 40	* 64	- 50

MEASLES CASE RATES

98 cities	113	2 142	118	2 162	128	2 194	126	181	3 192	281
New England	481	220	656	273	637	271	945	305	•1, 213	268
Middle Atlantie	111	85	89	85	79	87	66	70	98	101
East North Central	31	28	28	26	60	28	32	27	. # 94	55
West North Central	31 27	953	46	1, 077	25	1, 416	50	1, 277	38	1, 894
South Atlantic	43	62	22	80	26	138	14	124	79	322
East South Central	35	155	17	299	52	275	17	323	* 31	921
West South Central	27	2.11	17	3.11	44	2 18	41	24	64	. 24
Mountain.	757	53	809.	150	740	167	339	229	7 533	317
Pacific	180	26	210	-26.	294	6	259	16	* 445	. 24

N MEW SEEW MP

Ne Mi Ea We Sot Eac

SCARLET FEVER CASE RATES

98 cities	179	2 202	222	2 224	214	2 234	187	222	1 227	231
New England	298 155	268 178	397 199	259 186	438 202	351 208	389 205	353 190	* 541 240	327 229
East North Central	229 161	257 198	281 143	315 209	264 138	306 279	126	285	115	261 238
South Atlantic	172 128	230	176 250	260 377	201 157	208	107	178 341	* 119	262 299
West South Central	106	1 92	142	2 84	101	2 73	41	59	108	108
Mountain	218 100	141	261 153	211	261 94	83	61	379 85	109	220 73

¹ The figures given in this table are rates per 100,000 population, annual basis, and not the number of cases reported. Populations used are estimated as of July 1, 1931, and 1930, respectively.

1 Shreveport, La., not included.
2 Barre, Vt., Springfield, Ill., Covington, Ky., Boise, Idaho, and Spokane, Wash., not included.
3 Barre, Vt., not included.
4 Springfield, Ill., not included.
5 Covington, Ky., not included.
7 Boise, Idaho, not included.
8 Spokane, Wash., not included.
8 Spokane, Wash., not included.

Summary of weekly reports from cities, November 29, 1931, to January 2, 1932— Annual rates per 100,000 population, compared with rates for the corresponding period of 1930-31—Continued

SMALLPOX CASE RATES

- 1344	100				Week e	ended-				
	Dec. 5, 1931	Dec. 6, 1930	Dec. 12, 1931	Dec. 13, 1930	Dec. 19, 1931	Dec. 20, 1930	Ded. 26, 1931	Dec. 27, 1930	Jan. 2, 1932	Jan. 3, 1931
98 cities	5	17	4	2 14	5	19	4	7	13	
New England. Middle Atlantic. East North Central West North Central. South Atlantic. East South Central West South Central Mountain Pacific	55 1 0 4 0 0 0 3 0	0 0 1 48 0 0 2 4 108 10	7 0 2 13 0 0 17 0 10	0 0 3 122 0 0 27 150 6	55 0 4 4 0 0 0 3 0 2	0 6 48 0 0 2 15 115 10	14 0 4 10 0 0 7 0 8	0 0 2 43 0 0 17 35 20	4 12 0 8 7 4 0 0 0 0 7 0	1
	TY	PHOIL	FEV	ER CA	SE RA	TES	1/4	17.71		
98 cities	7	110	9	18	5	18	6	7	15	
New England	5 5 4 4 16 12 27 26 10	7 8 10 6 18 12 26 9	10 6 3 6 32 17 34 0 6	19 6 7 6 4 18 222 0 6	7 5 1 0 10 23 34 0 2	10 3 9 8 12 36 26 9 6	2 4 2 4 14 12 44 0 4	2 3 12 6 16 18 0 9	12 3 43 2 6 438 3 70 8	48 3 18
	12	NFLUE	NZA 1	DEATH	RATI	ES			110	
91 cities	7	19	8	*9	8	* 10	9	11	• 13	16
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central West South Central West South Central Pacific	2 4 6 6 8 7 9	5 6 8 12 20 13 234 18 2	5 8 3 6 12 25 7 35 14	5 7 5 21 24 26 211 9 7	5 6 6 6 12 6 17 17 17	2 5 10 15 20 32 23 18 10	7 7 5 3 12 32 24 70 7	2 10 7 9 24 19 32 0 17	4 2 5 4 10 9 18 4 27 45 7 135 14	7 17 7 3 20 26 93 18 10
	PN	NEUM	ONIA I	DEATE	RATI	ES				
91 cities	89	1 99	98	1 106	106	* 111	101	126	• 121	164
New England Middle Atlantie East North Central West North Central South Atlantie East South Central West South Central Mountain Pacific	91 95 56 88 146 95 135 122 77	73 101 77 132 154 155 * 128 132 60	67 108 66 112 140 113 104 87 130	119 104 86 150 134 123 162 159 60	111 116 63 103 142 170 142 200 122	116 127 69 96 138 110 1135 220 127	94 101 77 118 132 113 131 226 89	119 126 94 117 174 149 189 194 135	* 92 126 * 84 103 174 * 151 152 * 172 175	160 184 103 190 230 207 199 264 135

² Shreveport, La., not included.
3 Barre, Vt., Springfield, Ill., Covington, Ky., Boise, Idaho, and Spokane, Wash., not included.
4 Barre, Vt., not included.
5 Springfield, Ill., not included.
6 Covington, Ky., not included.
7 Boise, Idaho, not included.
8 Spokane, Wash., not included.
8 Spokane, Wash., not included.
8 Barre, Vt., Springfield, Ill., Covington, Ky., and Boise, Idaho not included.
8 Barre, Vt., Springfield, Ill., Covington, Ky., and Boise, Idaho not included.

FOREIGN AND INSULAR

SMALLPOX ON VESSEL

Brazilian ship "Jaboatao" at New Orleans.—According to information dated January 8, 1932, the Brazilian steamship Jaboatao from Santos, Victoria, and Bahia, Brazil, arrived in New Orleans with one case of smallpox on board. The patient was taken to the quarantine station hospital, and the crew and pilot were vaccinated. The living quarters of the ship were fumigated, and the crew were detained at the quarantine station to remain until vaccination became protective or until they were placed on board the ship, which was to return directly to Brazil within five days.

CANADA

Provinces—Communicable diseases—Week ended December 26, 1931.—The Department of Pensions and National Health of Canada reports cases of certain communicable diseases for the week ended December 26, 1931, as follows:

Cerebro- spinal fever	Influenza	Lethargic encepha- litis	Polio- myelitis	Typhoid fever
	1			11111111111
		*********	5	
1	1	1		
	********		********	

	spinal fever	spinal Influenza fever	spinal influenza encephalitis	spinal influenza encepha-litis myelitis

¹ No case of any disease included in the table was reported during the week.

Quebec Province—Communicable diseases—Week ended December 26, 1931.—The Bureau of Health of the Province of Quebec, Canada, reports cases of certain communicable diseases for the week ended December 26, 1931, as follows:

Disease	Cases	Disease	Cases
Chicken pox Diphtheria German measles Measles Mumps	63 29 1 110 26	Poliomyelitis. Scarlet fever Tuberculosis Typhoid fever. Whooping cough	64

CUBA

Habana—Communicable diseases—Four weeks ended January 2, 1932.—During the four weeks ended January 2, 1932, certain communicable diseases were reported in the city of Habana, Cuba, as follows:

Disease	Cases	Deaths	Disease	Cases	Deaths
Diphtheria	10 10 15	4	Scarlet fever	4 15 8	2

¹ Many of these cases are from the island, outside of Habana.

PANAMA CANAL ZONE

Communicable diseases—November, 1931.—During the month of November, 1931, certain communicable diseases, including imported cases, were reported in the Panama Canal Zone and terminal cities as follows:

Disease	Cases	Deaths	Disease	Cases	Deaths
Cerebrospinal meningitis	1 16 3 2 56 22	2	Pneumonia. Scarlet fever. Tuberculosis. Typhoid fever. Whooping cough.	1 1 17	25 25

PERU

Lima—Poliomyelitis.—According to information dated January 7, 1932, 21 cases of poliomyelitis were reported in Lima, Peru.

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14 |------

Saigon and Cholon

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CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER

From medical officers of the Public Health Service, American consuls, International Office of Public Hygiene, Pan American Sanitary Bureau, health section of the League of Nations, and other sources. The reports contained in the following tablese must not be considered as complete or final as regards either the list of countries included or the figures for the particular countries for which reports are given.

January, 1992 0 8 December, 1931 29 139 12 40 Week ended-2462 88 November, 1931 287-22 14 3,648 . 20 69 18 October, 1931 31 [C indicates cases; D, deaths; P, present] 9000 3 Sept. 20-0ct. 17, 26, 705 13, 257 2800 28 CHOLERA July 26-Aug. 22, 1931 25.51 27.52 27.53 HOR DOD DODDODDODDDDDDDDDDDDDD Place Indo-China (see also table below): Cochin-China—Rachgia India (Portuguese) India (French): Chandernagor Ceylon: Colombo. Pondicherry Negapatam. Prompenh. Madras.... Chittagong Karika China: Canton.... Hankow... Swatow Bombay. Calcutta. Shanghai

Amara Province Basra Province Dinwaniyah Iwaniyah Din Dinwaniyah Do Dinwaniyah Do Dinwaniyah Do Dinwaniyah Do Dinwaniyah Do Dinwaniyah		844 112	8878888	4-885143-948	2-228-s- 83		సౌయతాదే	ma mm	o ≠	600			100		
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Abadan Abadan Abadan C Abadan Ahwar D D D D D D D D D D D D D D D D D D D			6 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-9-		-18	e 25	roso	- 12	91-9	623	9			
Mohammerah Philippine Islands: 1 Provinces— Capie Cebu		4 6	35	20.		-0	104		9	1			9 80	40	
Biam Biam C C C Ayudhaya Province D D D D D D D D C C C C C C C C C C C	58		0 1 0 1 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0	1 4 9 3 4 1 2 3 4 1 4 2 1 1 9 9 1 1 1 1 1 9 9 1 1 1 1 9 9 1 1 1 1 9 9 1 1 1 1	0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8 8 8 8 8 8 8 8 8 8 8 8 8 9 8 8 8 8 8									
Bangkok		-	1						1 1 1 1 1 1 1 1 1						

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CHOLERA-Continued

[C indicates cases; D, deaths; P, present]

			V						Wee	Week ended-				
Place	June 28- July 25, 1931	July 26- Aug. 22, 1931	A SE	Sept. Oct. 17,		October, 1931	Z	November, 1931	r, 1981	1	December, 1931	er, 193	19 1	January.
			1881		2	25	-	**	12	28	12	91	88	6
On vestel: 8. S. Bandar Shalpour, at Bushire, Persia, from Basra C														
S. S. Cathay, at Kobe, Japan, from Bushire, Persia.		4												
S. S. Kasagi Maru, at Moji, from Shanghai		7		187										
		-		- total	Septe	September, 1931	188	0	October, 1981	188	Z	November, 1931	1, 1931	å:
Figor	7	1881	1881	1981	1-10	11-20	21-30	1-10	11-20	21-31	1-10	11-20	21-30	1931
Indo-China (French) (see also table above):	D	308	341	12		00		-						
Cochin-China i	200	898	833	288		+00	400	722	gen			10.0		-

1 Reports incomplete.

PLACITE

PLAGUE

[Cindicates cases; D deaths; P present]

Both of the Control o										Week ended-	-popu						
	June 28- July 25,	25, Aug. 22,	23- 23- 24-19,			Octob	October, 1931	1,0		Nove	November, 1931	1831	-	Decen	December, 1931	81	Inn. 9
profit	190		Tear	1981		10	17	*	12	2	2	8	10	22	19	26	1003
Algeria: Philippeville Permitan San Itan Provinsa	0000		885		1 1 1 1					1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 1 1	1 1 1					
Arores: Ran Mignel Island Terceirn Island						1 1 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 1 0 0 1 1 0 0	8						61 G	e-1-			
British East Africa (see also table below); Tanganyika				!	es.		6-					1 1					
Uganda. Ceyloni Colombe.	0000	118 100 100 100 100 100 100 100 100 100	200	222-	88-	650	28	E8		282							
Pingue-infected rats				111	-	-	-										
China: 1 Shansi Province 1 Shensi Province	00						- 11		22								
Dutch East Indies: Batavia and West Java	OAA	25 25 25 25 25 25 25 25 25 25 25 25 25 2	298	551	228		888	288	225	200	nas	22				11	
Ectador (see table below). Egypt: Alexandria						8						1 1.					
Assignt	201								1	-	-	1	-	1	1		

1 On July 27, 1931, 1,256 cases of plague were reported in Chiobe and Changchow, China, since April. On Sept. 19, 1931, 18 deaths were reported in Changchuanpu and new cases in Kaltung and Fengtien.

On Oct. 17, 1931, plague opidemic was reported in western Shansi Province, China, with 2,000 deaths at Heingissien,

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER-Continued

PLAGUE-Continued

[C indicates cases; D deaths; P present]

											Wee	Week ended-	1						
Place	June 28- July 28-	5, Aug. 22,	Z, 8e	23- 28- Sept. 19, 8	ept.		Octob	October, 1931	31		N	November, 1931	r, 1931		A	есешр	December, 1931		Jen.
	701				1981	80	10	17	25	31	-	1	12	8	10	22	19	8	1932
Egypt—Continued.	0			61															
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Port Said.		+40.	64	1					1	11	-		040		C9		-	-	
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France: Rouen—Devilleles. Hawaii Territory:	00									A			N						
		1	-	-	-	-								-					
Halilmalle—Flague-infected rats Kula District	Of			-															
Makawao—Plague-infected rats	7		1 1	-	1														
India			29	132	255	527	888	307	3019	625	200								
Bombay			N 64	••			11-							-					
Plague-infected rats	A 0	986	42	57	0	0	-21	12	-		п	7	11	13	97	16	17		
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Tamatave.	000		C4	10				:			- ! !				
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Spain: Hospitalet-Barcelona Province		2	+ 10 10		- ! !				*	-	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		0 5	!!!	
Syria: Beirut. Tunisia: Tunis Union of South Africa:	200	8-	-81-	-	1		-		-						
Cape Province—Plague-infected rats.		1	Ь			Ь		1 1		4					

OFFISH MEYORE PRIVINGS ARTHER WARE FOR THICK AS

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No.

Deto-ber, 1931

Sep-tem-logi,

Au-gust, 1931

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER-Continued

PLAGUE-Continued

Place

July, 1931 June, 1931 28 DODDODDODDODO Quispampa-Huancabamba. Peru-Continued. Huancabamba-Ayacaba Lima-Lima (haciendas) Plague-infected rats. La Samana—Hualgayoc. Lima—Lima. Paljan—Trujillo..... Patroviles-Chancay... Place Hunura-Chancay... San Pedro..... [C indicates cases; D, deaths; P, present] Tivaouane 1. Thies 1 Rufisque 1 ... Diourbel 1. Senegal: Baol 1 Louga ! Dakar 1... Nen-Octo-ber, 1931 3 --2572225844 Se pe 235 Au-484 July, June, 154 2222 ододододододод O British East Africa (see also table above): Callao-Plague-infected rats.... Madagascar (see also table above):
Ambositra Province Alamor Parish—Los Hoyos.... Palas Canton-San Antonio...

Ovejeria Celicia Canton—Choras. Loja Canton—

Eten-Chiclayo ...

Moramanga Province.

Tananarive Province

Miarinarivo Province.

Antisirabe Province...

Barranca-Chancay...

SMALLDOY

¹ Reports incomplete.

SMALLPOX [C indicates cases; D, deaths; P, present]

			1							100	M cer caded						
Traphone Place	July July	July Aug. Sept.	Sept.	Sept.	111	Octo	October, 1931	31		No	November, 1931	r, 1931		Dec	December, 1931	1881	Jar
78,600 mm	Total Com	1001	1001 1001	1981	62	10	17	8	31	7	**	21	8	10	12	19 26	1983
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Manchuria—Dairen	ADE												**				
Shanghal—Foreigners only	000	-	25	R	17	17	-	9	04-	27-	16	13	80	8,	16		

SMALLPOX-Continued

[C indicates cases; D, deaths; P, present]

ı										Weel	Week ended-	T						
Place	June 28- July 26, 1931		Aug. Sept. 22, 1931 19, 1931	Sept.		Octo	October, 1931	31		No	November, 1931	r, 1931		Ä	cemb	December, 1931		lan. 2
				1881	**	10	11	8	31	-	=	2	88	10	2	10	8	1932
Chosen (see table below). Colombia:							1.18							-		-		
Santa Marta.	AOR		-9															
France (see table below). Great Britain: England and Wales London London and Great Towns.	2 0000 2 233	288	* 53%	308	4 18	228	486	885	446.	£28	813	383	828	288	\$ 23	3 55		
Sheffield Grece (see table below). Hondura: Puerto Castilla.			69		-						-					-		
India India Bombay	2000 288 288 288	1	1,706	100	823	47	283	791	28	878		111-	x 0			64		
Calcutta	0000	-200	14010		-	64	-			64		-				7111		
Karachi Madras	006		1	1	8	00	1	-00	ce	11	-	III	24-	401	- 00 -	24		
Negapatam	100	64	+		-	•	1						1					
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Visagapatam	900	24	00	64														

India (French): Chandernagor...

	04	-	-		9	100			100	1	1		11			++
Pondicherry Province. Trido-China (see also table below): Saigon and Cholon. O Baghdad.	+88° ∞ −	88"-	, 840 mu		44401	121	00	897	- Manag	99-	-0040	000	1-04			
table below).	1	-		10								-			~	-
Mexico (see also table below): Milisco (State)—Guadalajara Mexico City and surrounding territory D Mexico City and control of the property	జబ్బియ	858	100 00	-01-		90		- 61	e4-	64			0 0			11 1111
pus			-	1 1	318			90								1 1
Panama: Chiriqui	8 9	25-	8	99 91	102	9	2		-	- 8	8	8-	m E	1 8 1		
Rumania (see table below). Siam Spain Straits Settlements																
Budan (Anglo-Egyptian) Syria (see table below). Union of Socialist Soviet Republics (see table below). Union of South Africa:			go.	4 1					4		09 0	Δ				
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Immortal case

SMALLPOX-Continued

IC indicates cases; D, deaths; P, present]

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C SS 47 6 29 13 30 6 7 27 10 11 26 20 2	Place	1981				-		1-31	1-10	11-20	21-30	1-10	11-20	21-31			21-30	10, 1981
Place May, June, July, Rust, Per, Per, Per, Per, Per, Per, Per, Per					₩ 4	83	80		10	1-4	2º	ö.	⊒∞	82		-	85	¥.
May, June, 1931 July, gust, ber, 1931 No. tem. ber, 1931 No. tem		11				11		*										Ш
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DIPIES O	-00000							Mora Rum Turk Unio	1 1 100	ocialist	Soviet		\$1.0 S	\$ -		8-	2	162

TYPHUS FEVER
[C indicates cases; D, deaths; P, present]

	- 3	1								Weel	Week ended-	T					
Place	June July 198	28, July 25, Aug.	June 28- July 26- Aug. 23- July 25, Aug. 22, Sept. 19, 1931 1931 1931			Oeto	October, 1931	-		Nove	November, 1931	1881	100	Deos	December, 1931	1881	Jen 9
				1981	60	10	11	7	18	7	14 21	88	80	21	9	8	1983
Algeria: Algiers	0	63					-		-	-		-					
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Manchurta—Harbin	00	60	-	1								1					
Choren (see table below). Colombia: Cali	D		-								1						
Egypt: Alexandria.	0		64							:	-	1		- 1			
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Freece (see table below).	A									-							
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Donegal County—StranorlarLinerick County—	0 0		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0												09		
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Castlebar	00	-	1		1		1	-	1	1	-	-	1	1	-	-	
Waterford County—Lismore	00											-			-	-	

TYPHUS FEVER-Continued

[C indicates cases; D, deaths; P, present]

Table below). Table				1							Week	Week ended-	1			- 4		-	
Indee table below . Indee table tabl		July July 25, 1931	Aug. 22, 1931	Sept. Sept. 19, 1931	Sept.		Octo	ber, 19	15		No	rembe	r, 1931		å	December, 1931	r, 1931		Jan. 2
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les (see table below). 11		200	252	=	64	60 ==	00	-	64	9-1	001		200	98	82	g.e			
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Place	May, 1931	June, 1931	July, 1931	Au- gust, 1931	Sep- tem- ber, 1931	Octo- ber, 1931	No- Vem- 1931	Place	May, 1931	June, 1931	July, 1931	Au- gust, 1931	Sep- tem- ber, 1931	Octo- ber, 1931	No- vem- ber, 1931
sen: Secul	110	6-40 8	8 %			128			-		s c 8	8 -	91	юнн	

1 Typhus fever has been reported in Peru from May to November, 1931, 153 new cases being reported during the months of October and November. The disease has not spread to the coastal regions.

YELLOW PEVER

[O indicates cases; D, deaths; P, present]

										Week	Week ended-	1				
Place	May 31- June 27,	g w j w	Aug Sug	Sept.	Sept.	4	1	October, 1931	1881			Томен	November, 1931	18	Dece	December, 1981
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Kong Circle	200	
Seguela	-	
Minoria Minoria	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	06	
Senegal:	1	
Podor (Hinterland)	0	0000000
St. Louis	0	
Thies		
	2	
Sudan (French)		
Macina-Kayo Circle.		
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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Town 12 14		# # # # # # # # # # # # # # # # # # #
Opper voita:		
DRUING	2	
Dadonam	7	
Diarahakoko		
**************************************	0	
Oungadougou	9	
